GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:26:40 ; Search time 25 Seconds
(without alignments)
949.772 Million cell updates/sec

Title: US-09-822-295-2
Perfect score: 807
Sequence: 1 MEQREILQKFLDEAQSKKIT...... FANRFSKPKGPENPFPTWNI 807

Scoring table: BLOSUM62
Gapop 60.0 , Gapext 60.0

Searched: 262574 seqs, 29422922 residues

Word size : 0

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	807	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	32	4.0	278	4	US-08-821-278A-18	Sequence 18, Appl
3	32	4.0	802	4	US-09-081-345-18	Sequence 18, Appl
4	30	3.7	30	4	US-09-081-345-16	Sequence 16, Appl
5	29	3.6	30	4	US-09-081-345-17	Sequence 17, Appl
6	17	2.1	31	4	US-09-081-345-15	Sequence 15, Appl
7	16	2.0	253	2	US-08-685-992-20	Sequence 20, Appl
8	16	2.0	253	2	US-09-144-925-20	Sequence 20, Appl
9	16	2.0	272	4	US-08-821-278A-19	Sequence 19, Appl
10	13	1.6	19	3	US-08-938-830-21	Sequence 21, Appl
11	13	1.6	19	3	US-09-020-222-21	Sequence 21, Appl
12	13	1.6	19	4	US-08-821-278A-22	Sequence 22, Appl
13	11	1.4	453	3	US-08-951-260A-7	Sequence 7, Appli
14	11	1.4	453	4	US-08-821-278A-2	Sequence 2, Appli
15	10	1.2	245	1	US-08-015-985-8	Sequence 8, Appli
16	10	1.2	245	2	US-08-685-992-26	Sequence 26, Appl
17	10	1.2	245	2	US-09-144-925-26	Sequence 26, Appl
18	10	1.2	246	4	US-08-884-569A-4	Sequence 4, Appli
19	10	1.2	263	2	US-08-685-992-5	Sequence 5, Appli
20	10	1.2	263	2	US-09-144-925-5	Sequence 5, Appli
21	10	1.2	294	2	US-08-468-576B-18	Sequence 18, Appl
22	10	1.2	294	2	US-08-468-579B-18	Sequence 18, Appl
23	10	1.2	294	3	US-08-468-577B-18	Sequence 18, Appl
24	10	1.2	548	2	US-08-468-576B-19	Sequence 19, Appl
25	10	1.2	548	2	US-08-468-579B-19	Sequence 19, Appl
26	10	1.2	548	3	US-08-468-577B-19	Sequence 19, Appl
27	10	1.2	979	4	US-08-514-213A-2	Sequence 2, Appli
28	10	1.2	1442	1	US-08-015-986A-3	Sequence 3, Appli
29	10	1.2	1442	2	US-08-446-363-3	Sequence 3, Appli
30	10	1.2	1445	1	US-08-015-986A-2	Sequence 2, Appli
31	10	1.2	1445	2	US-08-446-363-2	Sequence 2, Appli
32	10	1.2	1501	2	US-08-447-464-3	Sequence 3, Appli
33	10	1.2	1501	2	US-08-716-679-3	Sequence 3, Appli
34	10	1.2	1911	1	US-08-348-006B-5	Sequence 5, Appli
35	10	1.2	1911	2	US-08-800-825A-5	Sequence 5, Appli
36	10	1.2	1911	4	US-09-158-657-5	Sequence 5, Appli
37	10	1.2	1911	5	PCT-US94-10166-5	Sequence 5, Appli
38	9	1.1	127	4	US-08-811-481-5	Sequence 5, Appli
39	9	1.1	155	4	US-08-821-278A-17	Sequence 17, Appl
40	9	1.1	246	4	US-08-884-569A-3	Sequence 3, Appli
41	9	1.1	250	2	US-08-685-992-7	Sequence 7, Appli
42	9	1.1	250	2	US-09-144-925-7	Sequence 7, Appli
43	9	1.1	289	1	US-08-036-210-13	Sequence 13, Appl
44	9	1.1	289	2	US-08-449-609-13	Sequence 13, Appl
45	9	1.1	298	4	US-08-811-481-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 807; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 0;

; TYPE: PRT
; ORGANISM: Homo Sapien
US 09 822 295A 18

Query Match 4.0%; Score 32; DB 4; Length 802;
Best Local Similarity 100.0%; Pred. No. 2.3e-24;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 89 FIKGVYGPKAYIAIQGPLSIILLDFWKMIWEY 120
Db 89 FIKGVYGPKAYIAIQGPLSIILLDFWKMIWEY 120

RESULT 3
US 09 081 345-18
; Sequence 18, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071 2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 244/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955 0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US 09 081 345-18

Query Match 4.0%; Score 32; DB 4; Length 802;
Best Local Similarity 100.0%; Pred. No. 2.3e-24;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 89 FIKGVYGPKAYIAIQGPLSIILLDFWKMIWEY 120
Db 89 FIKGVYGPKAYIAIQGPLSIILLDFWKMIWEY 120

RESULT 4
US 09 081 345-16
; Sequence 16, Application US/09081345

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; Patent No. 6228641
;  GENERAL INFORMATION:
;    APPLICANT:  Bahija Jallal
;    APPLICANT:  Gregory D. Plowman
;    TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;    TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lyon & Lyon
;      STREET:  633 West Fifth Street
;      STREET:  Suite 4700
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  U.S.A.
;      ZIP:  90071-2066
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;      MEDIUM TYPE:  storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  IBM P.C. DOS 5.0
;      SOFTWARE:  FastSEQ for Windows 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/081,345
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  60/047,222
;      FILING DATE:  May 20, 1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warburg, Richard J.
;      REGISTRATION NUMBER:  32,327
;      REFERENCE/DOCKET NUMBER:  224/253
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (213) 489-1600
;      TELEFAX:  (213) 955-0440
;      TELEX:  67-3510
;  INFORMATION FOR SEQ ID NO:  16:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-09-081-345-16

  Query Match             3.7%;  Score 30;  DB 4;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 2.7e-22;
  Matches   30;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        699 YCLPYTSEHQIENAFNVKHHDCSALGVYFY 728
              |||||||||||||||||||||||||||||| 
Db          1 YSLPYESKHQIKNASNVKHHDSSALGVYSY 30


RESULT 5
US-09-081-345-17
; Sequence 17, Application US/09081345
; Patent No. 6228641
;  GENERAL INFORMATION:
;    APPLICANT:  Bahija Jallal
;    APPLICANT:  Gregory D. Plowman
;    TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;    TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lyon & Lyon
;      STREET:  633 West Fifth Street
;      STREET:  Suite 4700
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  U.S.A.
;      ZIP:  90071-2066
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;      MEDIUM TYPE:  storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  IBM P.C. DOS 5.0
;      SOFTWARE:  FastSEQ for Windows 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/081,345
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  60/047,222
;      FILING DATE:  May 20, 1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warburg, Richard J.
;      REGISTRATION NUMBER:  32,327
;      REFERENCE/DOCKET NUMBER:  224/253
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (213) 489-1600
;      TELEFAX:  (213) 955-0440
;      TELEX:  67-3510
;  INFORMATION FOR SEQ ID NO:  17:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-09-081-345-17

  Query Match             3.6%;  Score 29;  DB 4;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 2.6e-21;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        317 HTLQADSYSPNLPKSTTKAAKMMNQQRIK 345
              |||||||||||||||||||||||||||||
Db          1 HTLQADSYSPNLPKSTTKAAKMMNQQRIK 29


RESULT 6
US-09-081-345-15
; Sequence 15, Application US/09081345
; Patent No. 6228641
;  GENERAL INFORMATION:
;    APPLICANT:  Bahija Jallal
;    APPLICANT:  Gregory D. Plowman
;    TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;    TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lyon & Lyon
;      STREET:  633 West Fifth Street
;      STREET:  Suite 4700
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  U.S.A.
;      ZIP:  90071-2066
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;      MEDIUM TYPE:  storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  IBM P.C. DOS 5.0
;      SOFTWARE:  FastSEQ for Windows 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/081,345
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  60/047,222
;      FILING DATE:  May 20, 1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warburg, Richard J.
;      REGISTRATION NUMBER:  32,327
;      REFERENCE/DOCKET NUMBER:  224/253
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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: [illegible]
; TELEFAX: [illegible] 44
; TELEX: [illegible]
; INFORMATION FOR SEQ ID NO: [illegible]
; SEQUENCE CHARACTERISTICS:
; LENGTH: [illegible] amino acids
; TYPE: amino acid
; STRANDEDNESS: [illegible]
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
[illegible]

Query Match [illegible]; Score 1[illegible]; DB 4; Length [illegible];
Best Local Similarity [illegible]; Pred. No. 2[illegible];
Matches [illegible]; Conservative [illegible]; Mismatches 0; Indels 0; Gaps 0;

Qy [illegible]FK[illegible]VE[illegible] [illegible]
Db [illegible]FK[illegible]VE[illegible] [illegible]

RESULT [illegible]
[illegible]
; Sequence [illegible], Application US/08685992
; Patent No. [illegible]
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 3[illegible]
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: [illegible]
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 43[illegible]
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL9[illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: [illegible]
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: [illegible]
; SEQUENCE CHARACTERISTICS:
; LENGTH: [illegible] amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
[illegible]

Query Match 2.0%; Score 16; DB 2; Length 253;
Best Local Similarity [illegible]; Pred. No. 1.4e-07;
Matches 16; Conservative [illegible]; Mismatches [illegible]; Indels [illegible]; Gaps 0;

Qy [illegible] YINANFIKGVYGPKAY [illegible]

||||||||||||||||
Db 42 YINANFIKGVYGPKAY 57

RESULT 8
US-09-144-925-20
; Sequence 20, Application US/09144925
; Patent No. 5951979
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02421-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/144,925
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/685,992
; FILING DATE: July 25, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL96-03Z
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-144-925-20

Query Match 2.0%; Score 16; DB 2; Length 253;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 84 YINANFIKGVYGPKAY 99
||||||||||||||||
Db 42 YINANFIKGVYGPKAY 57

RESULT 9
US-08-821-278A-19
; Sequence 19, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 19
; LENGTH: 272

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;   TYPE: PRT
;   ORGANISM: Homo sapien
US-08-821-278A-19

  Query Match                 1.6%;  Score 13;  DB 4;  Length 272;
  Best Local Similarity   100.0%;  Pred. No. 1.5e-07;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          791 NRFSKPKGPRNPP 802
                |||||||||||||
Db           61 NRFSKPKGPRNPP 74


RESULT 10
US-08-920-222-21
; Sequence 21, Application US/08938830
; Patent No. 5804437
; GENERAL INFORMATION:
;     APPLICANT:  Lasky, Laurence A.
;     APPLICANT:  Dowbenko, Donald J.
;     TITLE OF INVENTION:  Tyrosine Phosphorylated Cleavage
;     TITLE OF INVENTION:  Furrow-Associated Proteins (PSTPIPS)
;     NUMBER OF SEQUENCES:  73
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Genentech, Inc.
;       STREET:  1 DNA Way
;       CITY:  South San Francisco
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94080
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  WinPatin (Genentech)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/938,830
;       FILING DATE:
;       CLASSIFICATION:  530
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/798419
;       FILING DATE:  07-FEB-1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Ginger R.
;       REGISTRATION NUMBER:  33,055
;       REFERENCE/DOCKET NUMBER:  P1066P2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  650/225 8216
;       TELEFAX:  650/952-9881
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  19 amino acids
;       TYPE:  Amino Acid
;       TOPOLOGY:  Linear
US-08-938-830-21

  Query Match                 1.6%;  Score 13;  DB 3;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
                |||||||||||||
Db            1 NRFSKPKGPRNPP 13


RESULT 11
US-08-920-222-21
; Sequence 21, Application US/08920222
; Patent No. 5811074
; GENERAL INFORMATION:
;     APPLICANT:  Lasky, Laurence A.
;     TITLE OF INVENTION:  Tyrosine Phosphorylated Cleavage
;     TITLE OF INVENTION:  Furrow Associated Proteins (PSTPIPS)
;     NUMBER OF SEQUENCES:  27
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Genentech, Inc.
;       STREET:  1 DNA Way
;       CITY:  South San Francisco
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94080
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  WinPatin (Genentech)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/920,222
;       FILING DATE:  06-Feb-1998
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/798419
;       FILING DATE:  02/07/1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Ginger R.
;       REGISTRATION NUMBER:  33,055
;       REFERENCE/DOCKET NUMBER:  P1066r1
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  650/225 8216
;       TELEFAX:  650/952-9881
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  19 amino acids
;       TYPE:  Amino Acid
;       TOPOLOGY:  Linear
US-08-920-222-21

  Query Match                 1.6%;  Score 13;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
                |||||||||||||
Db            4 NRFSKPKGPRNPP 16


RESULT 12
US-08-821-278A-22
; Sequence 22, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
;  APPLICANT:  Cheng, Jill
;  APPLICANT:  Lasky, Laurence A.
;  TITLE OF INVENTION:  Protein Tyrosine Phosphatases
;  FILE REFERENCE:  P1010R1
;  CURRENT APPLICATION NUMBER:  US/08/821,278A
;  CURRENT FILING DATE:  1997-03-20
;  NUMBER OF SEQ ID NOS:  23
; SEQ ID NO 22
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic oligonucleotide probe
US-08-821-278A-22

  Query Match                 1.6%;  Score 13;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
                |||||||||||||
Db            4 NRFSKPKGPRNPP 16


RESULT 13
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; ORGANISM: Mus Musculus
US-08-821-278A-2

Query Match 1.4%; Score 11; DB 4; Length 454;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSAGCGRTGV 236
||||||||||| |
Db 228 HCSAGCGRTGV 238

RESULT 15
US-08-015-985-8
; Sequence 8, Application US/08015985
; Patent No. 5538886
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; TITLE OF INVENTION: NOVEL RECEPTOR TYPE PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE ALPHA
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 AVENUE OF THE AMERICAS
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/015,985
; FILING DATE: 10-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Conuzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7684-020
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-015-985-8

Query Match 1.2%; Score 10; DB 1; Length 245;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIATQGPL 106
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Db 46 KAYIATQGPL 55

Search completed: July 7, 2003, 14:45:26
Job time : 26 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:43:11 ; Search time 29 Seconds
(without alignments)
3199.975 Million cell updates/sec

Title: US-09-822-295-2
Perfect score: 807
Sequence: 1 MEQREILQKFLDEAQSKKIT..........FANFFSKPKGPFNPPPTWNI 807

Scoring table: BLOSUM62
Gapop 60.0 , Gapext 60.0

Searched: 440863 seqs, 114992915 residues

Word size : 0

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: [illegible]
4: [illegible]
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9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
11: [illegible]_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	807	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	193	23.9	331	9	US-10-102-806-606	Sequence 606, App
3	32	4.0	802	10	US-09-822-295-18	Sequence 18, Appl
4	[illegible]	[illegible]	30	10	US-09-822-295-16	Sequence 16, Appl
5	29	[illegible]	30	10	US-09-822-295-17	Sequence 17, Appl
6	[illegible]	[illegible]	31	10	US-09-822-295-15	Sequence 15, Appl
7	[illegible]	[illegible]	312	10	US-09-788-626-21	Sequence 21, Appl
8	12	[illegible]	264	9	US-10-245-539-6	Sequence 6, Appli
9	11	1.4	448	9	US-10-087-993-32	Sequence 32, Appl
10	11	1.4	453	9	US-10-243-687-7	Sequence 7, Appli
11	11	1.4	458	9	US-10-087-993-36	Sequence 36, Appl
12	11	1.4	750	10	US-09-801-368-280	Sequence 280, App
13	[illegible]	1.2	294	10	US-09-788-626-27	Sequence 27, Appl
14	10	1.2	319	10	US-09-788-626-6	Sequence 6, Appli
15	[illegible]	1.2	442	10	US-09-925-300-950	Sequence 950, App
16	[illegible]	1.2	928	10	US-09-801-368-282	Sequence 282, App
17	[illegible]	1.2	[illegible]	9	US-10-038-686-3	Sequence 3, Appli
18	[illegible]	1.2	1502	9	US-09-808-602-54	Sequence 54, Appl
19	[illegible]	1.2	1502	9	US-09-800-198-44	Sequence 44, Appl
20	10	1.2	1948	9	US-09-808-602-55	Sequence 55, Appl
21	10	1.2	1948	9	US-09-800-198-45	Sequence 45, Appl
22	9	1.1	32	10	US-09-864-761-47354	Sequence 47354, A
23	9	1.1	127	10	US-09-876-527-5	Sequence 5, Appli
24	9	1.1	298	10	US-09-876-527-4	Sequence 4, Appli
25	9	1.1	306	10	US-09-788-626-8	Sequence 8, Appli
26	9	1.1	376	10	US-09-876-527-7	Sequence 7, Appli
27	9	1.1	641	10	US-09-876-527-2	Sequence 2, Appli
28	9	1.1	818	10	US-09-876-527-22	Sequence 22, Appl
29	9	1.1	1012	10	US-09-876-527-16	Sequence 16, Appl
30	8	1.0	162	9	US-10-106-698-6943	Sequence 6943, Ap
31	8	1.0	168	9	US-09-969-567B-40	Sequence 40, Appl
32	8	1.0	244	9	US-10-293-241-7	Sequence 7, Appli
33	8	1.0	244	10	US-09-848-294-7	Sequence 7, Appli
34	8	1.0	248	9	US-10-293-241-10	Sequence 10, Appl
35	8	1.0	248	10	US-09-848-294-10	Sequence 10, Appl
36	8	1.0	281	10	US-09-788-626-28	Sequence 28, Appl
37	8	1.0	291	10	US-09-788-626-22	Sequence 22, Appl
38	8	1.0	298	10	US-09-788-626-29	Sequence 29, Appl
39	8	1.0	309	10	US-09-788-626-12	Sequence 12, Appl
40	8	1.0	310	10	US-09-788-626-10	Sequence 10, Appl
41	8	1.0	313	10	US-09-788-626-19	Sequence 19, Appl
42	8	1.0	316	10	US-09-788-626-5	Sequence 5, Appli
43	8	1.0	316	10	US-09-788-626-26	Sequence 26, Appl
44	8	1.0	317	10	US-09-788-626-4	Sequence 4, Appli
45	8	1.0	354	9	US-09-095-478-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020194501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/031,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids

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;            [illegible]
;            [illegible]
;            [illegible]
;        [illegible]
;        SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US [illegible]

  Query Match             100.0%;  Score 807;  DB 10;  Length 807;
  Best Local Similarity   100.0%;  Pred. No. [illegible]
  Matches [illegible]  Conservative [illegible]  Mismatches [illegible]  Indels  0;  Gaps  0;

Qy       1 M[illegible]KRNIKKNRY 60
Db       1 M[illegible]KRNIKKNRY 60

Qy      61 K[illegible]SDEDSSYINANFIKGVYGPKAYIA[illegible]LLDFWRMIWEY 120
Db      61 K[illegible]SDEDSSYINANFIKGVYGPKAYIA[illegible]LLDFWRMIWEY 120

Qy     121 [illegible]ILEVKFNS 180
Db     121 [illegible]VMA[illegible]WAK[illegible]ILEVKFNS 180

Qy     181 [illegible]YKNWP[illegible]CAGCGRTGVICAI 240
Db     181 [illegible]GRTGVICAI 240

Qy     241 [illegible]YIWM[illegible]ENF[illegible]REMRIQR[illegible]VYNAVLE[illegible]FKRQMDVIRDK 300
Db     241 DYIWM[illegible]ENFSVE[illegible]REMRIQR[illegible]VYNAVLE[illegible]FKRQMDVIRDK 300

Qy     301 [illegible]PEKNH[illegible]KAAEMMNQ[illegible]SSSFDPRTSE 360
Db     301 [illegible]KAAEMMNQ[illegible]RTSE 360

Qy     361 [illegible]NY[illegible]DKNA[illegible]MKWQ[illegible]KH[illegible]SL[illegible]LGSL 420
Db     361 [illegible]NY[illegible]DKNA[illegible]MKWQ[illegible]KH[illegible]SL[illegible]LGSL 420

Qy     421 [illegible]N[illegible]KEVNAA[illegible]YENSKVP[illegible]IKEV[illegible]SKENFSYLESQPHDSC 480
Db     421 [illegible]N[illegible]KEVNAA[illegible]YENSKVP[illegible]IKEV[illegible]SKENFSYLESQPHDSC 480

Qy     481 [illegible]VENFYFSSW 540
Db     481 [illegible]NVKH[illegible]VENFYFSSW 540

Qy     541 [illegible]YYNSH[illegible]NSPINISSLLNQES 600
Db     541 [illegible]YYNSH[illegible]NSPINISSLLNQES 600

Qy     601 AV[illegible]VVEEA[illegible]NV[illegible]AVKVK[illegible]SLEWGGIS 660
Db     601 AVIAIAP[illegible]VVEEAGE[illegible]NVPKS[illegible]AVKVK[illegible]SLEWGGIS 660

Qy     661 [illegible]VKLRSPKSELHQD[illegible]PERILESFFLADEDCMQAQSIET 720
Db     661 [illegible]KSELHQD[illegible]PERILESFFLADEDCMQAQSIET 720

Qy     721 Y[illegible]IMEN[illegible]NMKK[illegible]NKPAESVQSNNS 780
Db     721 Y[illegible]IMEN[illegible]NMKK[illegible]NKPAESVQSNNS 780

Qy     781 [illegible]NE[illegible]AN[illegible]KEK[illegible]ENPPIWNI 807
Db     781 [illegible]NE[illegible]AN[illegible]KEK[illegible]ENPPIWNI 807


RESULT [illegible]
US [illegible]
; Sequence [illegible], Application [illegible]
; Patent No. [illegible]442A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA103P1C1
;  CURRENT APPLICATION NUMBER: US/10/102,806
;  CURRENT FILING DATE:  2002-03-22
;  PRIOR APPLICATION NUMBER: 09/925,298
;  PRIOR FILING DATE: 2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05881
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 846
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 606
;   LENGTH: 331
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (91)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
;   NAME/KEY: SITE
;   LOCATION: (285)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
US-10-102-806-606

  Query Match             23.9%;  Score 193;  DB 9;  Length 331;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-182;
  Matches  193;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     568 FTSSTSLFSYYNSHDSLSLNSPINISSLLNQESAVLATAPRIDDEIPPPLPVRIPESFIV 627
Db      92 FTSSTSLFSYYNSHDSLSLNSPINISSLLNQESAVLAIAPRIDDEIPPPLPVRIPESFIV 151

Qy     628 VEEAGEFSPNVPKSLSSAVKVK[illegible]SLEW[illegible]SVKLRSPKSELH 687
Db     152 VEEAGEFSPNVPKSLSSAVKVK[illegible]SLEW[illegible]SVKLRSPKSELH 211

Qy     688 QD[illegible]PERILESFFLADEDCMQA[illegible]SYP[illegible]MENS[illegible]KSFI 747
Db     212 QDRSSPPPPLPERILESFFLADEDCMQAQSIETYSISYPDIMENSISSK[illegible]KIPGKSFI 271

Qy     748 RSKSLKILRNMKK 760
Db     272 RSKSLKILRNMKK 284


RESULT 3
US-09-822-295-18
; Sequence 18, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
;         APPLICANT: Bahija Jallal
;                    Gregory D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             PTP04 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Lyon & Lyon
;              STREET: 633 West Fifth Street
;                         Suite 4700
;              CITY: Los Angeles
;              STATE: California
;              COUNTRY: U.S.A.
;              ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                           storage
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: IBM P.C. DOS 5.0
;              SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/822,295
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; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

Query Match 4.0%; Score 32; DB 10; Length 802;
Best Local Similarity 100.0%; Pred. No. 9.8e-23;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 89 FIKGVYSPKAYIAFQCPLSTTLLDPWRMIWFY 120

RESULT 4
US-09-822-295-16
; Sequence 16, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-822-295-16

Query Match 3.7%; Score 30; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 4.4e-22;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 499 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 528
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Db 1 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 30

RESULT 5
US-09-822-295-17
; Sequence 17, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-822-295-17

Query Match 3.9%; Score 29; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 4.3e-21;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 317 HTLQADSYSPNLPKSITKAAKMMNQQRTK 345
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Db 1 HTLQADSYSPNLPKSITKAAKMMNQQRTK 29

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-21

Query Match 2.0%; Score 16; DB 10; Length 312;
Best Local Similarity 100.0%; Pred. No. 2.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 84 YINANFIKGVYGPKAY 99
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Db 42 YINANFIKGVYGPKAY 57

RESULT 8
US-10-245-539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077638A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; TITLE OF INVENTION: MID 446O, A HUMAN TYROSINE PHOSPHATASE
; FILE OF INVENTION, FAMILY MEMBER AND USES THEREFOR
; FILE REFERENCE: MP101-155PIRM
; CURRENT APPLICATION NUMBER: US/10/245,539
; CURRENT FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/328,018
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
US-10-245-539-6

Query Match 1.5%; Score 12; DB 9; Length 264;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 56 KKNEYKDILPYD 67
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Db 3 KKNEYKDILPYD 14

RESULT 9
US-10-087-993-32
; Sequence 32, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yoona Woona
; Wang, Bong Yang
; Chen, Zhenxin
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PTP 2, BDP1, SLK,
; AND SIRP POLYPEPTIDES AND RELATED
; PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 68
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:

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;                MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                      storage
;                COMPUTER: IBM Compatible
;                OPERATING SYSTEM: IBM P.C. DOS 5.0
;                SOFTWARE: FastSEQ for Windows 2.0
;          CURRENT APPLICATION DATA:
;                APPLICATION NUMBER: US/10/087,993
;                FILING DATE: 05-Mar-2002
;                CLASSIFICATION: 435
;          PRIOR APPLICATION DATA:
;                APPLICATION NUMBER: US/08/877,150
;                FILING DATE: June 17, 1997
;                APPLICATION NUMBER: U.S. 60/019,620
;                FILING DATE: June 17, 1996
;                APPLICATION NUMBER: U.S. 60/023,485
;                FILING DATE: August 9, 1996
;                APPLICATION NUMBER: U.S. 60/030,860
;                FILING DATE: No. US20020169303Alember 13, 1996
;                APPLICATION NUMBER: U.S. 60/034,286
;                FILING DATE: December 19, 1996
;                APPLICATION NUMBER: U.S. 60/030,964
;                FILING DATE: No. US20020169303Alember 15, 1996
;          ATTORNEY/AGENT INFORMATION:
;                NAME: Warburg, Richard J.
;                REGISTRATION NUMBER: 32,327
;                REFERENCE/DOCKET NUMBER: 225/298
;          TELECOMMUNICATION INFORMATION:
;                TELEPHONE: (213) 489-1600
;                TELEFAX: (213) 955-0440
;                TELEX: 67-3510
;     INFORMATION FOR SEQ ID NO: 32:
;          SEQUENCE CHARACTERISTICS:
;                LENGTH: 453 amino acids
;                TYPE: amino acid
;                STRANDEDNESS: single
;                TOPOLOGY: linear
;          MOLECULE TYPE: peptide
;          SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-10-087-993-32

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  Best Local Similarity    100.0%;  Pred. No. 0.036;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         226 HCSAGCGRTGV 236
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Db         228 HCSAGCGKTGV 238


RESULT 13
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030073120A1
;   GENERAL INFORMATION:
;          APPLICANT: Aoki, Naohito
;                     Ullrich, Axel
;          TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
;                              AND RELATED PRODUCTS AND METHODS
;          NUMBER OF SEQUENCES: 7
;          CORRESPONDENCE ADDRESS:
;               ADDRESSEE: Lyon & Lyon
;               STREET: 633 West Fifth Street
;                       Suite 4700
;               CITY: Los Angeles
;               STATE: California
;               COUNTRY: U.S.A.
;               ZIP: 90071-2066
;          COMPUTER READABLE FORM:
;               MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                            storage
;               COMPUTER: IBM Compatible
;               OPERATING SYSTEM: IBM P.C. DOS 5.0
;               SOFTWARE: FastSEQ for Windows 2.0
;          CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/10/243,687
;               FILING DATE: 16-Sep-2002
;               CLASSIFICATION: <Unknown>
;          PRIOR APPLICATION DATA:
;               APPLICATION NUMBER: US/09/430,626A
;               FILING DATE: 29-Oct-1999
;               APPLICATION NUMBER: 08/951,260
;               FILING DATE: October 16, 1997
;               APPLICATION NUMBER: 60/030,860
;               FILING DATE: No. US20030073120AOctober 13, 1996
;               APPLICATION NUMBER: PCT/IB97/00946
;               FILING DATE: June 17, 1997
;          ATTORNEY/AGENT INFORMATION:
;               NAME: Warburg, Richard J.
;               REGISTRATION NUMBER: 32,327
;               REFERENCE/DOCKET NUMBER: 225/004
;          TELECOMMUNICATION INFORMATION:
;               TELEPHONE: (213) 489-1600
;               TELEFAX: (213) 955-0440
;               TELEX: 67-3510
;     INFORMATION FOR SEQ ID NO: 7:
;          SEQUENCE CHARACTERISTICS:
;               LENGTH: 453 amino acids
;               TYPE: amino acid
;               STRANDEDNESS: single
;               TOPOLOGY: linear
;          MOLECULE TYPE: peptide
;          SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-243-687-7

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  Best Local Similarity    100.0%;  Pred. No. 0.037;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         226 HCSAGCGRTGV 236
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Db         228 HCSAGCGRTGV 238


RESULT 11
US-10-087-993-36
; Sequence 36, Application US/10087993
; Patent No. US20020169303A1
;   GENERAL INFORMATION:
;          APPLICANT: Ullrich, Axel
;                     Aoki, Naohito
;                     Kim, Yeong Woong
;                     Wang, Hong Yang
;                     Chen, Zhongjun
;                     Naylor, Oliver
;                     Kharitonenkov, Alexei Igorevich
;          TITLE OF INVENTION: NOVEL PTP20, PCP-2, BOEL, CLK,
;                              AND SIRP POLYPEPTIDES AND RELATED
;                              PRODUCTS AND METHODS
;          NUMBER OF SEQUENCES: 38
;          CORRESPONDENCE ADDRESS:
;               ADDRESSEE: Lyon & Lyon
;               STREET: 633 West Fifth Street
;                       Suite 4700
;               CITY: Los Angeles
;               STATE: California
;               COUNTRY: U.S.A.
;               ZIP: 90071-2066
;          COMPUTER READABLE FORM:
;               MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                            storage
;               COMPUTER: IBM Compatible
;               OPERATING SYSTEM: IBM P.C. DOS 5.0
;               SOFTWARE: FastSEQ for Windows 2.0
;          CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/10/087,993
;               FILING DATE: 05-Mar-2002
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; [illegible]ATION NO: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/[illegible]
; FILING DATE: June 17, 1997
; APPLICATION NUMBER: U.S. 60/019,629
; FILING DATE: June 17, 1996
; APPLICATION NUMBER: U.S. 60/023,485
; FILING DATE: August 9, 1996
; APPLICATION NUMBER: U.S. 60/030,860
; FILING DATE: No. US20020169303Alember 13, 1996
; APPLICATION NUMBER: U.S. 60/034,286
; FILING DATE: December 19, 1996
; APPLICATION NUMBER: U.S. 60/030,964
; FILING DATE: No. US20020169303Alember 15, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: [illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955 0440
; TELEX: [illegible]
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 458 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 36:
[illegible]-36

Query Match 1.4%; Score 11; DB 9; Length 458;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSAGCGRIGV 236
Db 226 HCSAGCGRIGV 236

RESULT 12
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; Sequence [illegible], Application US/09801368
; Patent No. US20020128250A1
; GENERAL INFORMATION:
; APPLICANT: Bobby, Robert
; APPLICANT: [illegible], Brian
; APPLICANT: Hecht, Peter
; APPLICANT: Holtzman, Doug
; APPLICANT: Madden, Kevin
; APPLICANT: Maxon, Mary
; APPLICANT: Milne, Todd
; APPLICANT: No. US20020128250Alman, Thea
; APPLICANT: Royer, [illegible]
; APPLICANT: [illegible]
; APPLICANT: Sherman, Amir
; APPLICANT: [illegible], Jeff
; APPLICANT: Summers, Eric
; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
; FILE REFERENCE: 10627.147
; CURRENT APPLICATION NUMBER: US/09/801,368
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 09/487,558
; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: US 60/160,587
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version [illegible]
; SEQ ID NO [illegible]
; LENGTH: [illegible]
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-801-368-280

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Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSAGCGRIGV 236
Db 665 HCSAGCGRIGV 675

RESULT 13
US-09-788-626-27
; Sequence 27, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-27

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Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIATQGPL 106
Db 55 KAYIATQGPL 64

RESULT 14
US-09-788-626-6
; Sequence 6, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-6

Query Match 1.2%; Score 10; DB 10; Length 319;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIATQGPL 106
Db 57 KAYIATQGPL 66

RESULT 15
US-09-925-300-950
; Sequence 950, Application US/09925300
; Patent No. US20020151681A1

; GENERAL INFORMATION:
; APPLICANT: Yale Rosen
; APPLICANT: Steve Rubel
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: CA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1840
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 950
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-950

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Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIAIQGPL 106
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Db 242 KAYIAIQGPL 251

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Job time : 81 secs

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Run on:          July 7, 2003, 14:49:57 ; Search time 26 Seconds
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                                          2481.193 Million cell updates/sec

Title:           SEQ2-JOINED
Perfect score:   [illegible]
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Scoring table:   BLOSUM62
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Searched:        44[illegible] seqs  114992915 residues

Total number of hits satisfying chosen parameters:     44[illegible]

Minimum DB seq length: 0
Maximum DB seq length: [illegible]

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	[illegible]	[illegible]	[illegible]	9	US-10-102-806-606	Sequence 606, App
3	[illegible]	[illegible]	802	10	US-09-822-295-18	Sequence 18, Appl
4	[illegible]	[illegible]	1367	10	US-09-801-368-108	Sequence 108, App
5	[illegible]	[illegible]	1142	9	US-10-085-108-7	Sequence 7, Appli
6	[illegible]	[illegible]	1142	9	US-10-207-655-79	Sequence 79, Appl
7	[illegible]	[illegible]	1142	10	US-09-899-651-2	Sequence 2, Appli
8	[illegible]	[illegible]	[illegible]	10	US-09-822-295-16	Sequence 16, Appl
9	[illegible]	[illegible]	[illegible]	10	US-09-822-295-17	Sequence 17, Appl
10	[illegible]	[illegible]	81	10	US-09-822-295-15	Sequence 15, Appl
11	[illegible]	[illegible]	[illegible]	10	US-09-815-242-12713	Sequence 12713, A
12	[illegible]	[illegible]	[illegible]	9	US-10-142-515-11	Sequence 11, Appl
13	[illegible]	[illegible]	[illegible]	9	US-10-243-243A-8	Sequence 8, Appli
14	[illegible]	[illegible]	[illegible]	9	US-09-932-257A-3	Sequence 3, Appli
15	[illegible]	[illegible]	[illegible]	10	US-09-862-027-40	Sequence 40, Appl
16	[illegible]	[illegible]	[illegible]	10	US-09-815-242-13057	Sequence 13057, A
17	[illegible]	[illegible]	[illegible]	10	US-09-801-368-52	Sequence 52, Appl
18	[illegible]	[illegible]	[illegible]	10	US-09-864-761-35612	Sequence 35612, A
19	[illegible]	4.4	[illegible]	10	US-09-887-328A-2	Sequence 2, Appli
20	128.5	4.4	1736	10	[illegible]	Sequence [illegible], Appl
21	128	4.4	639	10	US-09-825-144-[illegible]	Sequence [illegible], Appli
22	128	4.4	639	10	US-09-823-240-[illegible]	Sequence 5, Appli
23	127.5	4.4	2843	8	US-09-[illegible]	Sequence [illegible], Appl
24	126.5	4.4	1421	10	US-09-[illegible]-13	Sequence 13, Appl
25	126	4.3	[illegible]	9	US-10-[illegible]-217A-[illegible]	Sequence [illegible], Appl
26	126	4.3	938	9	US-10-[illegible]-217A-29	Sequence 29, Appl
27	125.5	4.3	1544	9	US-10-[illegible]-285	Sequence 285, App
28	125.5	4.3	2597	10	US-09-905-129-2	Sequence 2, Appli
29	125.5	4.3	2597	10	US-09-905-129-10	Sequence 10, Appl
30	125.5	4.3	2597	10	US-09-905-129-13	Sequence 13, Appl
31	125.5	4.3	2597	10	US-09-991-630-2	Sequence 2, Appli
32	125.5	4.3	2597	10	US-09-991-630-10	Sequence 10, Appl
33	125.5	4.3	2597	10	US-09-991-630-13	Sequence 13, Appl
34	124.5	4.3	2843	9	US-09-987-482-1	Sequence 1, Appli
35	124	4.3	957	9	US-10-025-380-1065	Sequence 1065, Ap
36	124	4.3	957	10	US-09-[illegible]-217-1065	Sequence 1065, Ap
37	124	4.3	957	10	US-09-[illegible]-1065	Sequence 1065, Ap
38	123.5	4.2	[illegible]	9	US-09-[illegible]A-15	Sequence 15, Appl
39	122.5	4.2	1192	9	US-10-[illegible]	Sequence [illegible], Appl
40	122.5	4.2	1192	10	US-09-789-[illegible]-2	Sequence 2, Appli
41	122.5	4.2	1192	10	US-09-[illegible]-6	Sequence 6, Appli
42	122.5	4.2	1192	10	US-09-893-348-2[illegible]	Sequence 2[illegible], Appl
43	122.5	4.2	1192	10	US-09-972-[illegible]A-6	Sequence 6, Appli
44	122.5	4.2	1400	10	US-09-[illegible]-7	Sequence 7, Appli
45	122	4.2	1530	9	US-10-[illegible]A-6	Sequence 6, Appli

ALIGNMENTS

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RESULT 1
US-09-822-295-2
  Sequence 2, Application US/09822295
  Patent No. US20020119501A1
    GENERAL INFORMATION:
;         APPLICANT: Bahija Jallal
;                    Gregory D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             [illegible] DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;               ADDRESSEE: Lyon & Lyon
;               STREET: 633 West Fifth Street
;                       Suite 4700
;               CITY: Los Angeles
;               STATE: California
;               COUNTRY: U.S.A.
;               ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;               MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                            storage
;               COMPUTER: IBM Compatible
;               OPERATING SYSTEM: IBM P.C. DOS 5.0
;               SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/09/822,295
;               FILING DATE: 02 Apr 2001
;               CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;               APPLICATION NUMBER: [illegible]
;               FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;               NAME: Warburg, Richard J.
;               REGISTRATION NUMBER: [illegible]
;               REFERENCE/DOCKET NUMBER: [illegible]
;         TELECOMMUNICATION INFORMATION:
;               TELEPHONE: (213) 489-1600
;               TELEFAX: (213) 955-0440
;               TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 2:
;         SEQUENCE CHARACTERISTICS:
;               LENGTH: 807 amino acids
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Query Match [illegible]; Score [illegible]; DB [illegible]; Length [illegible];
Best Local Similarity [illegible]; Pred. No. [illegible];
Matches [illegible]; Conservative [illegible]; Mismatches [illegible]; Indels [illegible]; Gaps [illegible];

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Qy [illegible] 48
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Qy [illegible] DVIRDK 54
Db [illegible]YEVVYNAVLELFKEQMDVIRDK 300

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Qy [illegible]AKEEIVDE[illegible]LELNY[illegible]KNALIIMKWQIKAIPIVGEPLQKHQSLDLGSL 174
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Db [illegible]VENEYFSSW 540

Qy [illegible]KM[illegible]LNQES 354
Db [illegible]KM[illegible]SLNSPINISSLLNQES 600

Qy [illegible]AVLAIAP[illegible]VVEEA[illegible]SAVKVKI[illegible]SLEWGGIS 414
Db [illegible]AVLAIAP[illegible]SAVKVKI[illegible]SLEWGGIS 660

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Qy [illegible]NMEEE[illegible] 534
Db [illegible]NMEEE[illegible]VQSNNS 780

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; [illegible]
; [illegible] 44[illegible]A1
; [illegible]NERAL INFORMATION:

; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA1[illegible]
; CURRENT APPLICATION NUMBER: US/10/102,806
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/925,298
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05[illegible]
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,[illegible]
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 606
; LENGTH: 33[illegible]
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (91)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
; NAME/KEY: SITE
; LOCATION: (285)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
US-10-102-806-606

Query Match 59.0%; Score 1717; DB 9; Length 331;
Best Local Similarity 99.4%; Pred. No. 3.4e-108;
Matches 329; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 531 GNNGGGPLNEGFANREGKPKGPRNPPPIWNI 561
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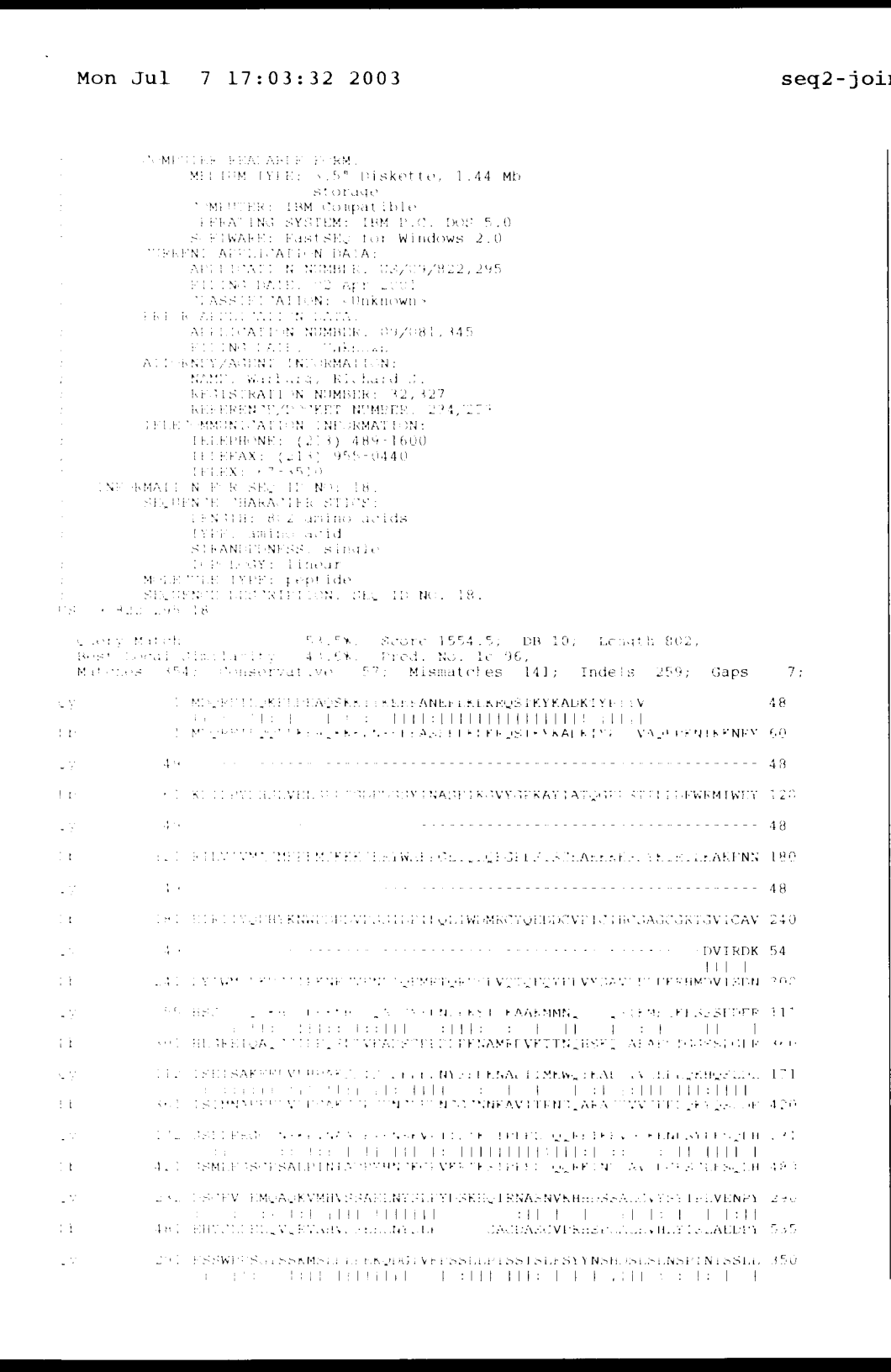
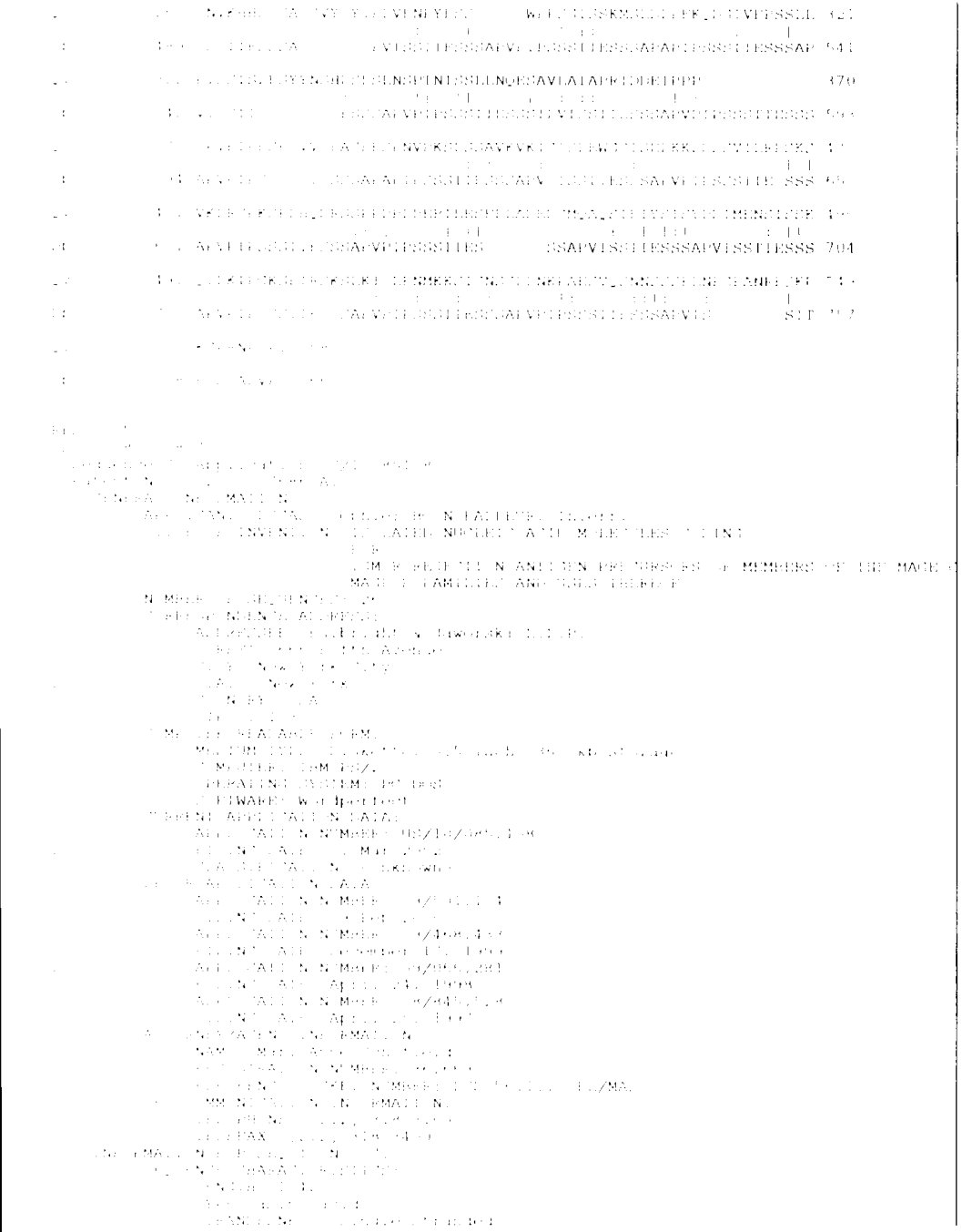
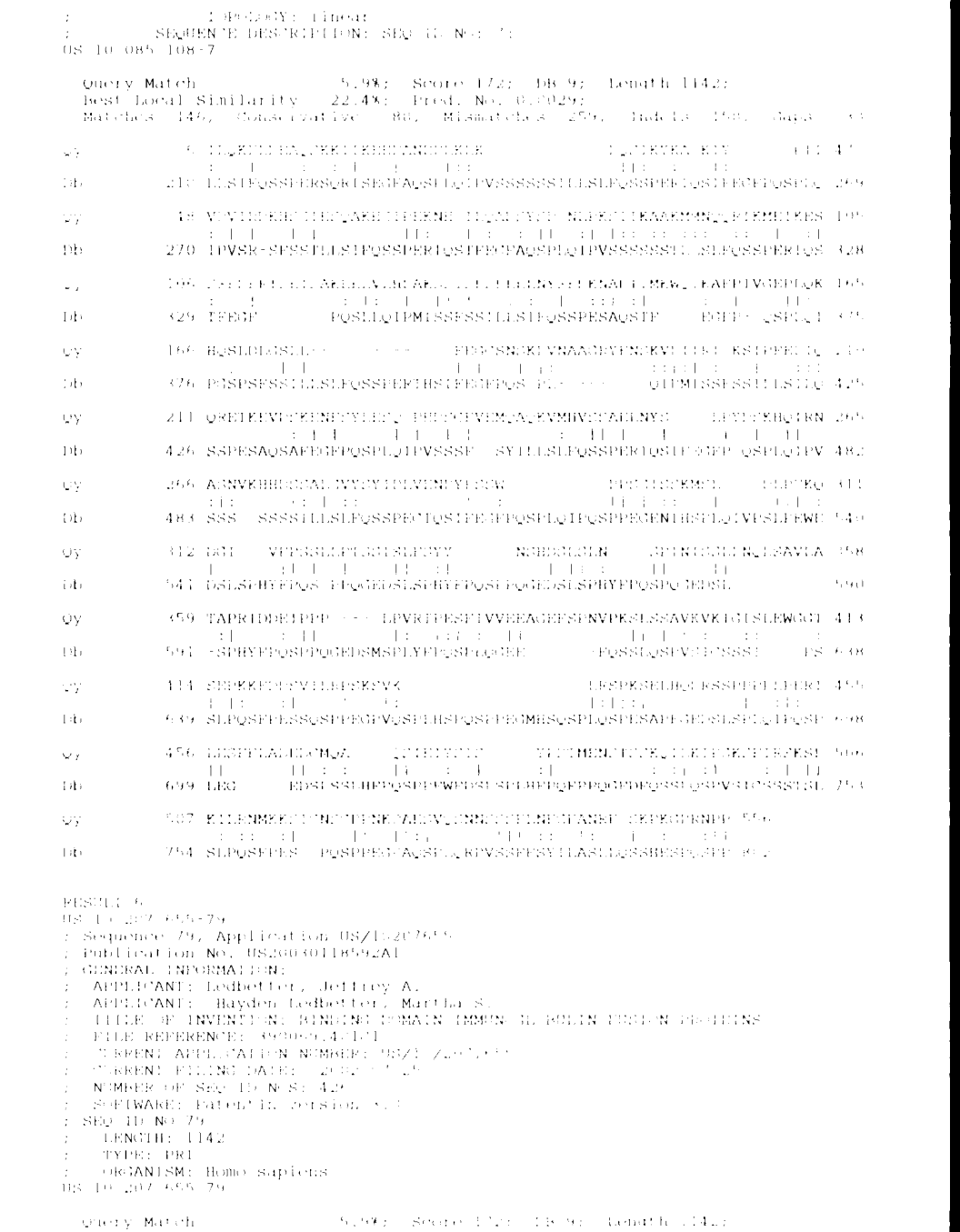
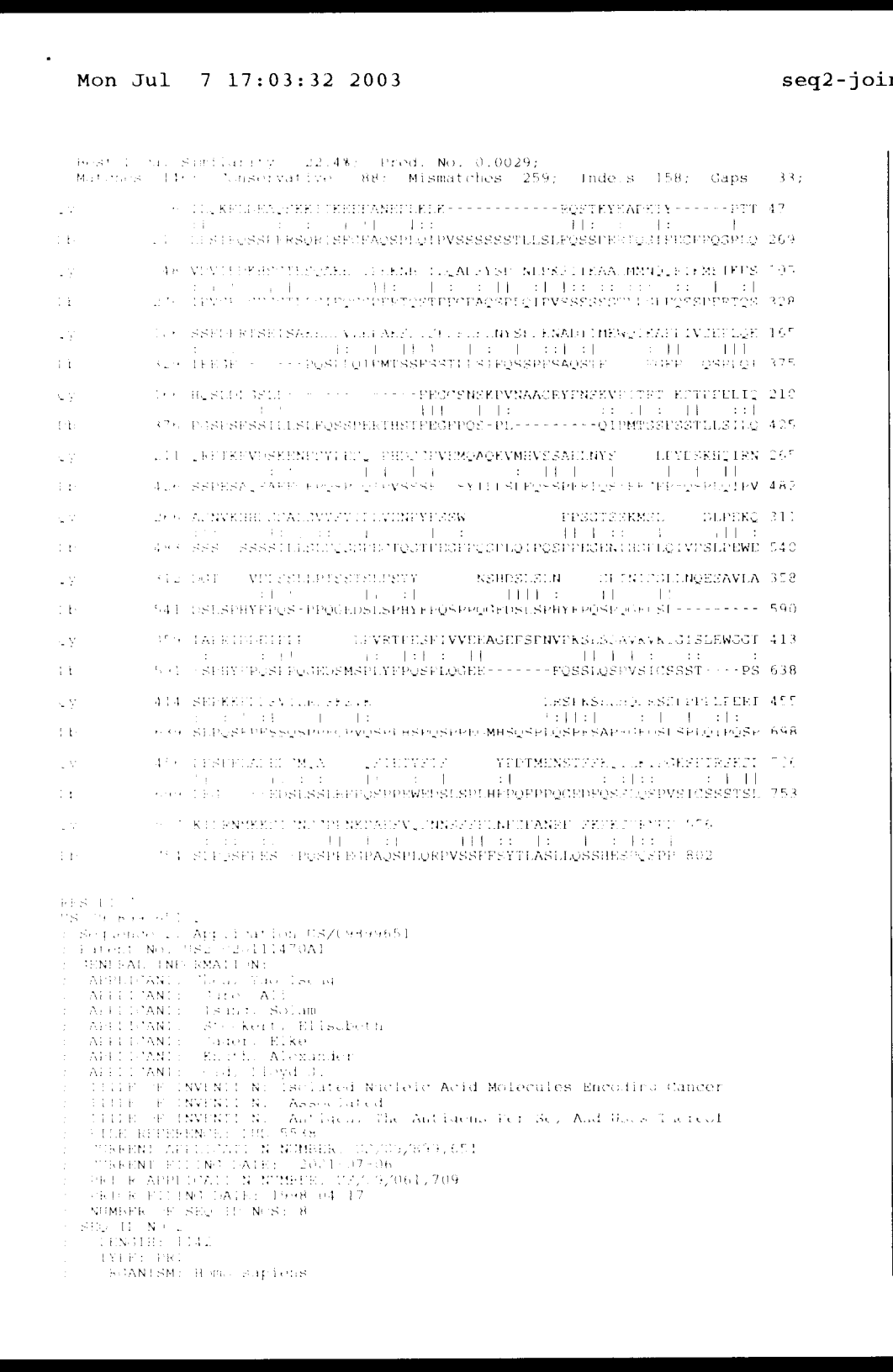
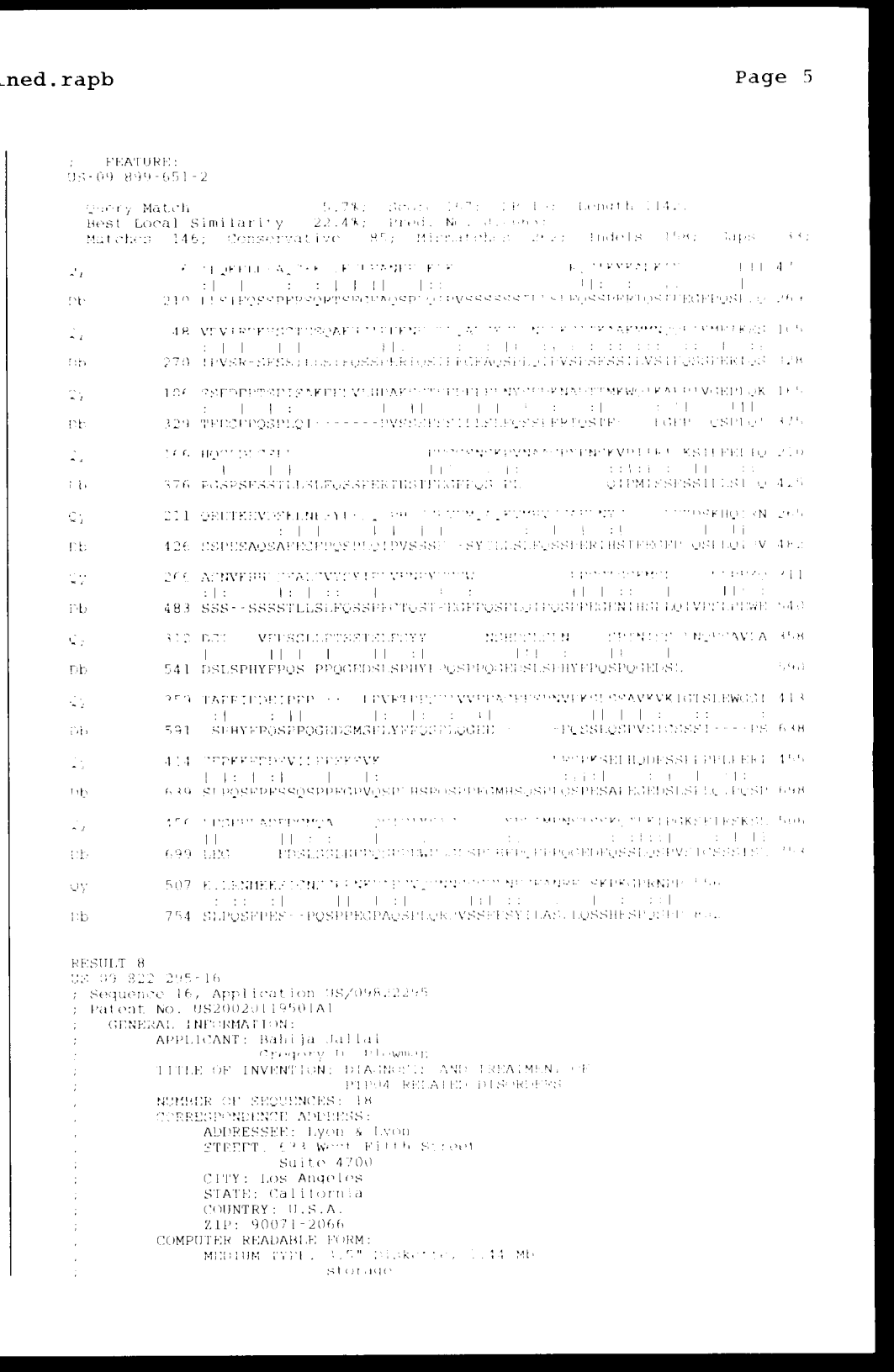
RESULT 3
US-09-822-295-18
; Sequence 18, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066











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;             FILING DATE: 02 Apr 2001
;             CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: [illegible]
;             FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: 234/253
;         TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: [illegible]:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: [illegible] amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: [illegible]:
[illegible]

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  Best Local Similarity [illegible] Pred. No. [illegible];
  Matches [illegible] Conservative [illegible] Mismatches [illegible] Indels [illegible] Gaps 0;

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Db [illegible] NAGNVKHHL[illegible]AIGVYSY [illegible]


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; Sequence [illegible], Application US/09822295
; Patent No. [illegible]
;   GENERAL INFORMATION:
;         APPLICANT: [illegible]
;                    Gregory D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             PTP04 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                          storage
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: IBM P.C. DOS 5.0
;             SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/822,295
;             FILING DATE: 02 Apr 2001
;             CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: [illegible]
;             FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: 234/253
;         TELECOMMUNICATION INFORMATION:
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;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 17:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 30 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-822-295-17

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  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 10
US-09-822-295-15
; Sequence 15, Application US/09822295
; Patent No. US20020150[illegible]A1
;   GENERAL INFORMATION:
;         APPLICANT: Rabija Jallal
;                    Gregory D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             PTP04 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                          storage
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: IBM P.C. DOS 5.0
;             SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/822,295
;             FILING DATE: 02-Apr-2001
;             CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/081,54?
;             FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: 234/253
;         TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 15:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 31 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 15:
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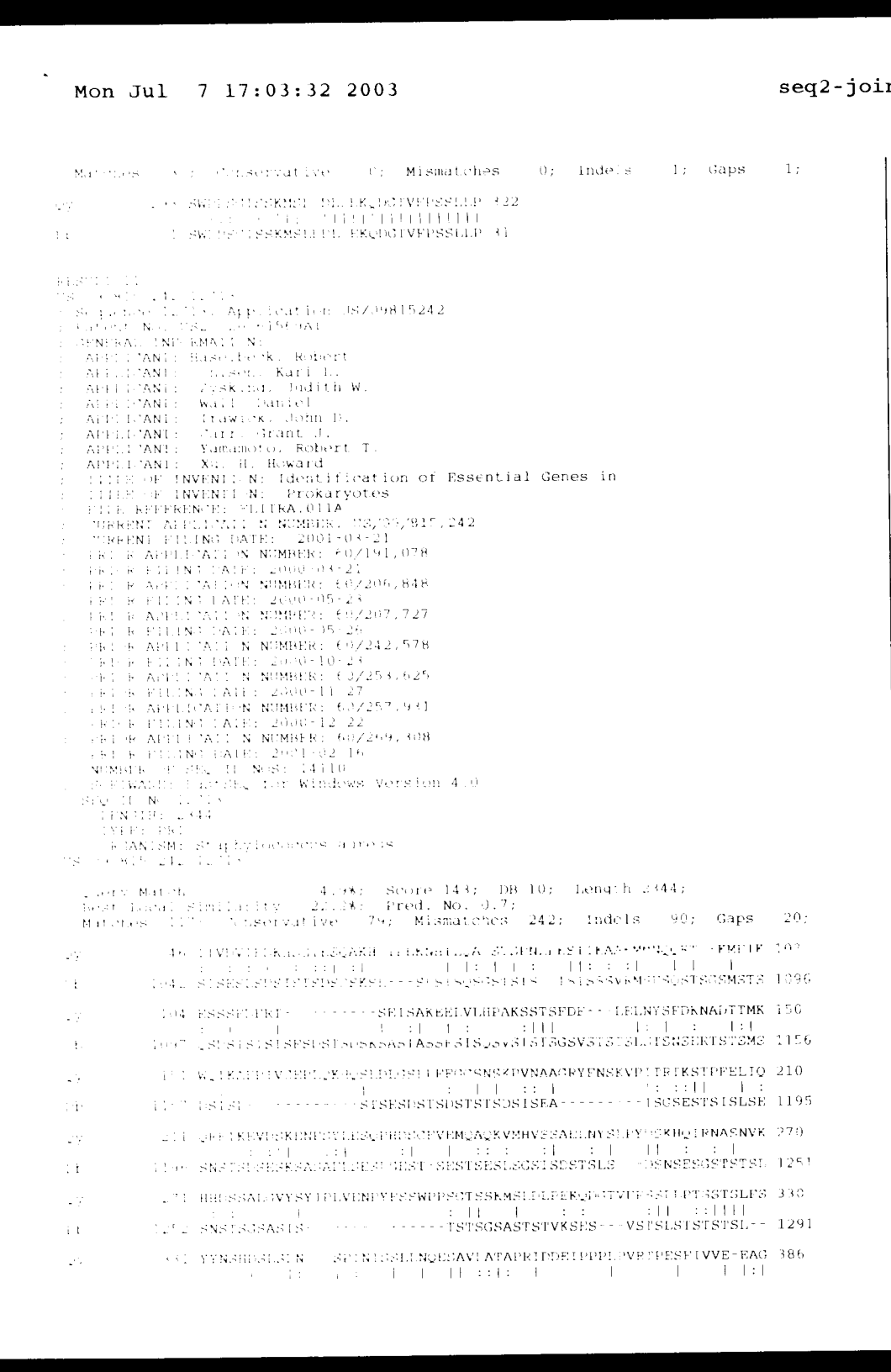

Matches 5; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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; Sequence 11, Application US/09815242
; Publication No. US20030078399A1
; GENERAL INFORMATION:
; APPLICANT: Baselga-Bok, Robert
; APPLICANT: Olsen, Karl L.
; APPLICANT: Polsky, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: PLLIKA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/254,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 11
; LENGTH: 2344
; TYPE: PRT
; ORGANISM: Staphylococcus aureus

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; Sequence 11, Application US/10142515
; Publication No. US20030078399A1
; GENERAL INFORMATION:
; APPLICANT: SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH
; APPLICANT: Lloyd, Kenneth O.
; APPLICANT: Yin, Beatrice W.T.
; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Use
; FILE REFERENCE: 649-A-US
; CURRENT APPLICATION NUMBER: US/10/142,515
; CURRENT FILING DATE: 2002-05-8
; PRIOR APPLICATION NUMBER: US 60/290,490
; PRIOR FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 5877
; TYPE: PRT
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; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(5877)
; OTHER INFORMATION: Amino acid sequence of MUC16

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; APPLICANT: Estable, Mario
; APPLICANT: Roeder, Robert
; TITLE OF INVENTION: [illegible] Transcription Factor
; FILE REFERENCE: 600-1-269N
; CURRENT APPLICATION NUMBER: US/09/932,257A
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/226,340
; PRIOR FILING DATE: 2000-08-18
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; PRIOR FILING DATE: 2000-08-18
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;   LENGTH: 1163
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;   ORGANISM: Homo sapiens
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;   OTHER INFORMATION: x is any amino acid
US-09-932-257A-3

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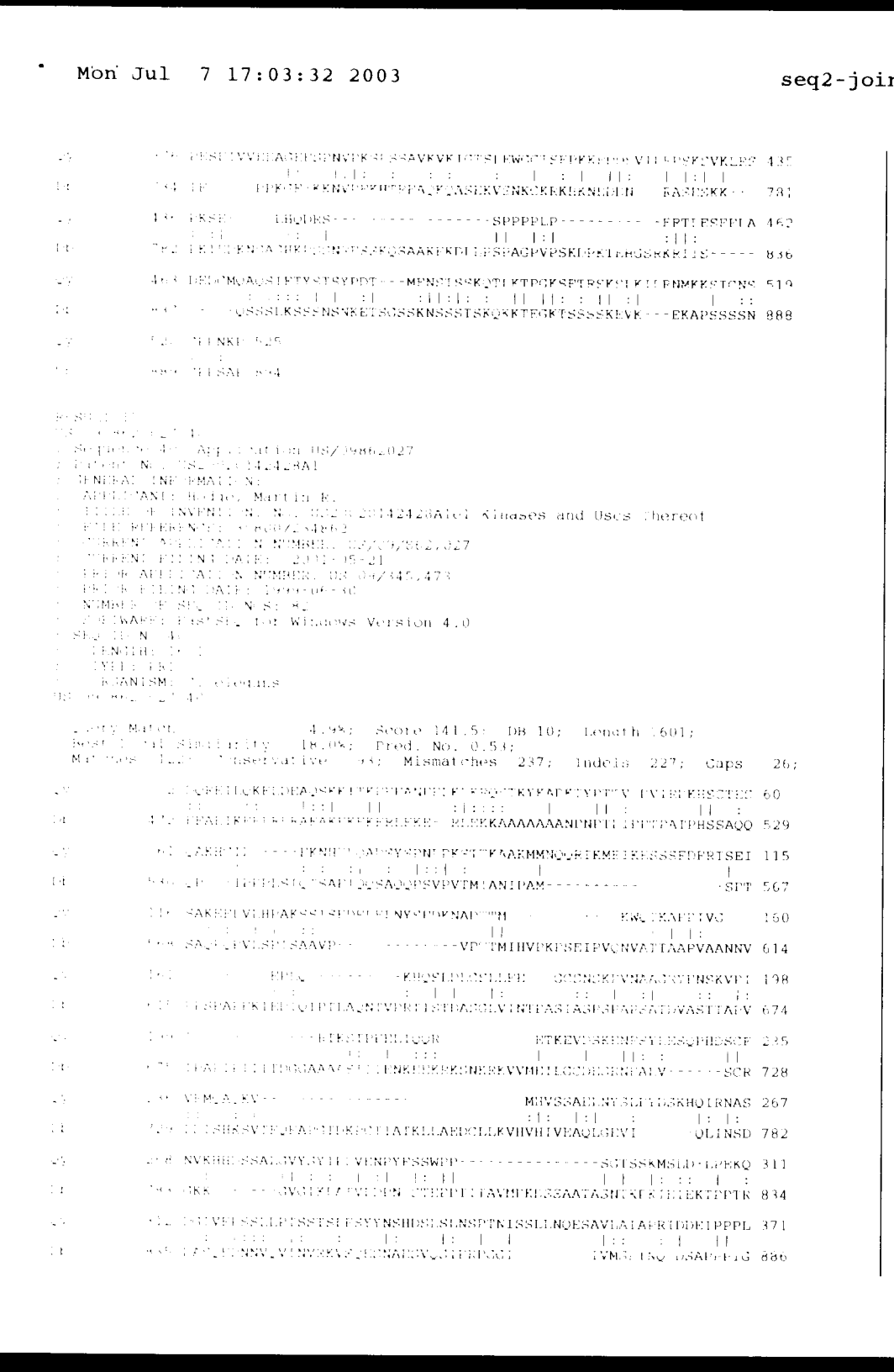

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SUMMARIES

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3	[illegible]	[illegible]	1142	2	US-08-993-118-7	Sequence 7, Appli
4	[illegible]	[illegible]	1142	3	US-08-845-528C-7	Sequence 7, Appli
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6	[illegible]	[illegible]	[illegible]	1	US-09-081-345-16	Sequence 16, Appl
7	[illegible]	[illegible]	2137	1	US-09-1[illegible]-001C-4463	Sequence 4463, Ap
8	[illegible]	[illegible]	[illegible]	4	US-09-081-345-17	Sequence 17, Appl
9	[illegible]	[illegible]	[illegible]	1	US-09-081-345-15	Sequence 15, Appl
10	[illegible]	4.[illegible]	897	3	US-08-975-703-6	Sequence 6, Appli
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16	[illegible]	4.4	2843	1	US-08-289-548A-2	Sequence 2, Appli
17	[illegible]	4.4	2843	1	US-08-452-654-2	Sequence 2, Appli
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19	[illegible]	4.4	2843	1	US-08-449-7[illegible]-2	Sequence 2, Appli
20	[illegible]	4.4	1494	3	US-08-755-587-186	Sequence 186, App
21	[illegible]	4.[illegible]	834	1	US-08-471-033-21	Sequence 21, Appl
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36	124.5	4.3	2973	2	US-08-821-[illegible]A-[illegible]	Sequence [illegible], Appli
37	124.5	4.3	2973	2	US-09-[illegible]-68[illegible]A-7	Sequence [illegible], Appli
38	124.5	4.3	2973	4	US-09-[illegible]-60[illegible]-7	Sequence [illegible], Appli
39	123	4.2	[illegible]	4	US-08-[illegible]-12	Sequence 12, Appl
40	123	4.2	848	1	US-08-345-806-4	Sequence 4, Appli
41	123	4.2	848	1	US-08-[illegible]-4	Sequence [illegible], Appli
42	122	4.2	278	4	US-08-821-278A-18	Sequence 18, Appl
43	121.5	4.2	1805	1	US-07-853-91[illegible]-2	Sequence 2, Appli
44	121	4.2	1068	1	US-08-396-479B-12	Sequence 12, Appl
45	121	4.2	1068	1	US-08-818-82[illegible]-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/25[illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 95.4%; Score 2775; DB 4; Length 807;
Best Local Similarity 69.5%; Pred. No. [illegible];

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Qy        [illegible] KAAKMMN [illegible] KESSSFDFRISE                  114
Db        [illegible]                                                   [illegible]

Qy        [illegible]                                                   174
Db        [illegible] MKWQIKA [illegible] QKHQSLDLGSL                   420

Qy        [illegible]                                                   234
Db        [illegible]                                                   480

Qy        [illegible]                                                   [illegible]
Db    [illegible] [illegible]                                           540

Qy        [illegible]                                                   [illegible]
Db        [illegible]                                                   [illegible]

Qy        [illegible] SLEWGGIS                                          414
Db        [illegible]                                                   [illegible]

Qy        [illegible] MQAQSIEI                                          474
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Qy        [illegible] NKFAESVQSNNS                                      534
Db        [illegible] NKFAESVQSNNS                                      780

Qy        [illegible]
Db        [illegible]
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RESULT [illegible]
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; Sequence 18, Application US/09081345
; [illegible]
; GENERAL INFORMATION:
; APPLICANT: [illegible]
; APPLICANT: [illegible]
; TITLE OF INVENTION: [illegible] AND TREATMENT OF
; TITLE OF INVENTION: [illegible] RELATED DISORDERS
; NUMBER OF SEQUENCES: [illegible]
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: [illegible]
; STREET: [illegible] West [illegible] Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: [illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-[illegible]
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-18

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  Query Match             [illegible]%;  Score 1554.[illegible];  DB 4;  Length 802;
  Best Local Similarity   43.6%;  Pred. No. 2.1e-119;
  Matches 354;  Conservative [illegible];  Mismatches 141;  Indels [illegible];  Gaps 7;

Qy          1 [illegible] KIYPIIV                                      48
Db          1 [illegible] NKKNRY                                       60

Qy         49                                                          48
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Qy         49                                                          48
Db        121 [illegible] KAKFNN                                      180

Qy         49                                                          48
Db        181 [illegible] VPICTHCSAGCGRIGVICAV                        240

Qy         49                                                   DVIRDK 54
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Qy         55 [illegible] SSSFDFR                                     111
Db        301 [illegible]                                             360

Qy        112 [illegible] KHQSLDL                                     171
Db        361 ISTMNA [illegible] KYQSLDF                              420

Qy        172 [illegible] YLESQLH                                     231
Db        421 GSMLF [illegible] CLESQLH                               480

Qy        232 [illegible] VENPY                                       290
Db        481 [illegible] SPGALRVHEYISLAEDPY                          535
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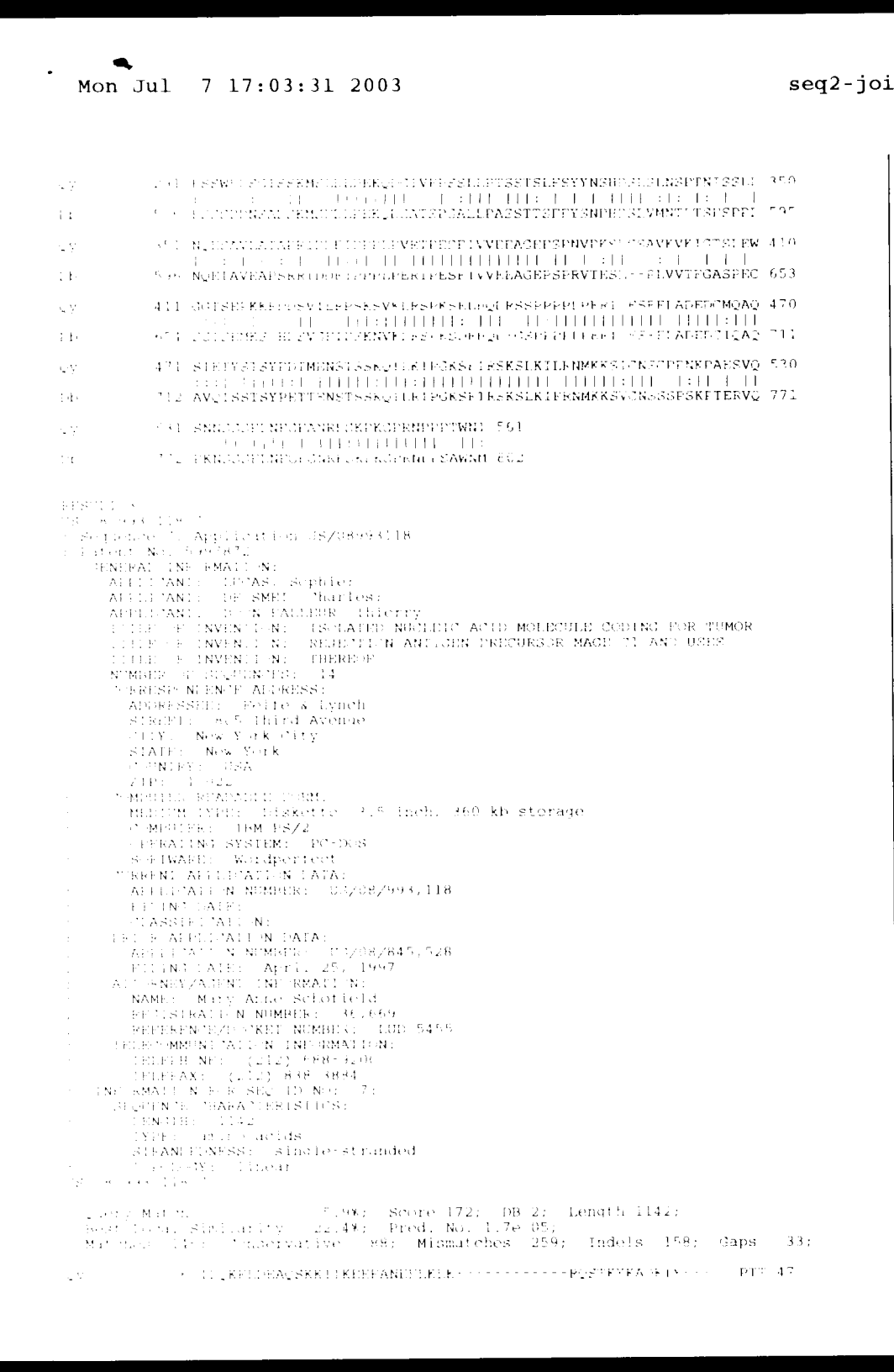

RESULT 4
US-08-845-528C-7
; Sequence 7, Application US/08845528C
; Patent No. 6027924
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528C
; FILING DATE: April 25, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

NAME: [illegible]

[illegible]

Query Match [illegible] Score 172; DB 3; Length 1142;

[illegible]

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Qy [illegible] KYEAEKIY PTT 47
Db [illegible] 209
Qy [illegible] KAAKMMNQKIKMEIKES 105
Db [illegible] 328
Qy [illegible] 165
Db [illegible] 375
Qy [illegible] KSIPEELIQ 210
Db [illegible] QIPMISSESSILLSILQ 425
Qy [illegible] 265
Db [illegible] QSPLQIPV 482
Qy [illegible] 311
Db [illegible] 540
Qy [illegible] NSHDSLSLN SPINISSLLNQESAVLA 358
Db [illegible]
Qy [illegible] LPVRIPESFIVVEEAGEESPNVPKSLSSAVKVKIGISLEWGGI 413
Db [illegible] 638
Qy [illegible] LRSPKSELHQDRSSPPPPLPERI 455
Db [illegible] 698
Qy [illegible] 506
Db [illegible] 753
Qy [illegible] 556
Db [illegible] 802
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[illegible]

; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd J.
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
; TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof
; FILE REFERENCE: LUD 5538
; CURRENT APPLICATION NUMBER: US/09/061,709B
; CURRENT FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-061-709-2

Query Match 5.7%; Score 167; DB 4; Length 1142;
Best Local Similarity 22.4%; Pred. No. 4.4e-05;
Matches 146; Conservative 85; Mismatches 262; Indels 158; Gaps 33;

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Qy    6 ILQK---AQ----K---ANKIK---------KQSIKYEAEKIY    PTT 47
Db  210 LLSIFQSSPERSQRISEGFAQSPLQIPVSSSSSSILLSLFQSSPEKQSIFEGFPQSPLQ 269

Qy   48 VPVIEPEHRQIQQAKHIPEKNHTIQADYSP NIPKSITKAAKMMNQKIKMEIKES 105
Db  270 PVSR SFSSILLSIFQSSIEEIQSIFEGFAQSPLQIPVSPSFSSILVSIFQSSPERIQS 328

Qy  106 QSPDVPEPQIISAEEIIVIHEAKSQTQPEIIENYSPENAPTTMEWQIKAPPVVIPPQK 165
Db  329 IFEGFPQSPLQI         PVSSSFSSILLSLFQSSPERIQSIF    EGFP QSPLQI 375

Qy  166 HQSLDIASSLL                    ELQSNQKEVNAAQKYINSKVPIIRI KSIPEELIQ 210
Db  376 PGSPSFSSILLSLFQSSPERTHSIFEGFPQS PL-           QIPMISSESSILLSILQ 425

Qy  211 QRETKEVDSKINESYLEQQ THEQTVEMQAQKVMHVSQAELNYS    LEYISKHQIKN 265
Db  426 SSPESAQSAFEGFPQSPLQIPVSSSF- SYILLSLFQSSPERTHSIFEGFP QSPLQIPV 482

Qy  266 ASNVKHHHQSALGVYGYIPLVENPYFSSW            PPSGISSKMSL    DLPEKQ 311
Db  483 SSS--SSSSILLSLFQSSPECTQSIFEGFPQSPLQIPQSPPEGENIHSPLQIVPSLPEWE 540

Qy  312 EGI---VEPSSLLPISSISLFSYY---      NSHDSLSLN -- SPINISSLLNQESAVLA 358
Db  541 DSLSPHYFPQS-PPQGEDSLSPHYFPQSPPQGEDSLSPHYFPQSPQGEDSL           590

Qy  359 IAPRIDDEIPPP        LPVRIPESFIVVEEAGEESPNVPKSLSSAVKVKIGISLEWGGI 413
Db  591  SPHYFPQSPPQGEDSMSPLYFPQSPLQGEE ---     FQSSLQSPVSICSSSI     PS 638

Qy  414 SEPKKEDQSVILRPSKSVK          --         --   LRSPKSELHQDRSSPPPPLPERI 455
Db  639 SLPQSFPESSQSPPEEIPVQSPLHSPQSPPEGMHSQSPLQSPESAPEGEDSLSPLQIPQSP 698

Qy  456 LESPPLAPEDCMQA     QTIEIYSIS      YPDIMENSISSKQILKIPIKSPIESKSL 506
Db  699 LEG-     EDSLSSLHFPQSPPEWEDSLSPLHFPQFPPQGEDFQSSLQSIVSIYSSSISL 753

Qy  507 KIIENMKKQIQNCIPPNKIALSVQQNNSIIPLNEQIANRF CKEKQPENP 556
Db  754 SLPQSFPES--PQSPPECPAQSPLQRPVSSFFSYILASLLQSSHESPQSPP 802
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RESULT 6
US-09-081-345-16
; Sequence 16, Application US/09081345
; Patent No. 6228643
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS

```
;   NUMBER OF SEQUENCES: 18
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Lyon & Lyon
;     STREET: 633 West Fifth Street
;     STREET: Suite 4700
;     CITY: Los Angeles
;     STATE: California
;     COUNTRY: U.S.A.
;     ZIP: 90071-2066
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;     MEDIUM TYPE: storage
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: IBM P.C. DOS 5.0
;     SOFTWARE: FastSEQ for Windows 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/081,345
;     FILING DATE: Herewith
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: 60/047,222
;     FILING DATE: May 20, 1997
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Warburg, Richard J.
;     REGISTRATION NUMBER: 32,327
;     REFERENCE/DOCKET NUMBER: 234/253
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (213) 489-1600
;     TELEFAX: (213) 955-0440
;     TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 16:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 30 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-09-081-345-16

  Query Match             5.5%;  Score 161;  DB 4;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 6.2e-07;
  Matches   30;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        253 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 282
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Db          1 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 30


RESULT 7
US-09-134-001-4463
; Sequence 4463, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE: 1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 9674
; SEQ ID NO 4463
;   LENGTH: 2137
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001-4463

  Query Match             5.3%;  Score 155;  DB 4;  Length 2137;
  Best Local Similarity   20.3%;  Pred. No. 0.0011;
  Matches  1[illegible];  Conservative   75;  Mismatches  294;  Indels   48;  Gaps   11;

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Qy         92 MMNQQETKMETKL[illegible]W 151
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Qy        152 QTKA[illegible]VGE[illegible]QKHQSLDLGSLLE[illegible]GNGKPVNAAGRYENSKVPITTEIKS[illegible] 211
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Qy        323 TS---STSLFSYYNSHDSLSLNSF[illegible]N[illegible]---SLLNQ[illegible]AVLATAERTDDE[illegible]PVE[illegible] 376
Db       1817 TSDSA[illegible]SESDSNS[illegible]STS[illegible]SASTSLSVSD               1865

Qy        377 ES[illegible]VVE[illegible]AGE-ENVTE[illegible]VEEKSI 436
Db       1866 SNSASTSLSGSTSTSVSDSTSTSTSASASTS----TSESDSDSASTSLSTSTSTSTSDS 1920

Qy        437 KSELHQDRSSPPPELPEETLESPP[illegible]ACD[illegible]MQAQ[illegible]TYSTSYPDIMEN[illegible]KQTLETI 496
Db       1921 TSTSTSDSAS--TSTSESASTSTSVSESDSESTSVSESSSTSVSDSTSTSTSESASTST 1977

Qy        497 GKCTTRSELE[illegible]GNMEE[illegible]N 539
Db       1978 SESESTSESTSVSESSSTS SDSSSTSTSMSTSETETSQSPTN 2020


RESULT 8
US-09-081-345-17
; Sequence 17, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
;   APPLICANT: Rabija Jallal
;   APPLICANT: Gregory D. Plowman
;   TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;   TITLE OF INVENTION: PTP04 RELATED DISORDERS
;   NUMBER OF SEQUENCES: 18
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Lyon & Lyon
;     STREET: 633 West Fifth Street
;     STREET: Suite 4700
;     CITY: Los Angeles
;     STATE: California
;     COUNTRY: U.S.A.
;     ZIP: 90071-2066
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;     MEDIUM TYPE: storage
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: IBM P.C. DOS 5.0
;     SOFTWARE: FastSEQ for Windows 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/081,345
;     FILING DATE: Herewith
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: 60/047,222
;     FILING DATE: May 20, 1997
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Warburg, Richard J.
;     REGISTRATION NUMBER: 32,327
;     REFERENCE/DOCKET NUMBER: 234/253
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[illegible]

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Qy        293 SWPPSGISSKMSL DLP KQDGIVEPSSLLP 322
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Db          1 SWPPSGISSKMSLDDLPSKQDGIVEPSSLLP [illegible]


RESULT 10
US-08-975-703-6
; Sequence 6, Application US/08975703
; Patent No. 6030832
;  GENERAL INFORMATION:
;    APPLICANT:  Wong, Alexander K.C.
;    APPLICANT:  Bartel, Paul L.
;    APPLICANT:  Pena, David R. F.
;    APPLICANT:  Tavtigian, Sean V.
;    TITLE OF INVENTION:  A Carboxy Terminal BRCA1 Interacting
;    TITLE OF INVENTION:  Protein
;    NUMBER OF SEQUENCES:  41
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Rothwell, Figg, Ernst & Kurz, P.C.
;      STREET:  555 Thirteenth Street, N.W., Suite 701 East
;      STREET:  Tower
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  U.S.A.
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/975,703
;      FILING DATE:
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Saxe, Stephen A.
;      REGISTRATION NUMBER:  38,609
;      REFERENCE/DOCKET NUMBER:  2313-0174
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-624-1586
;      TELEFAX:  202-783-6031
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  897 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-975-703-6

  Query Match              4.9%;  Score 141.5;  DB 3;  Length 897;
  Best Local Similarity   19.1%;  Pred. No. 0.0039;
  Matches  125;  Conservative   96;  Mismatches  228;  Indels  205;  Gaps   30;

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Db         41 KVTKLKQ[illegible]DAQKLEEFFTENQ[illegible]Q--- QKVLHE[illegible]IEVLEDKLRAGL [illegible]CDR 91

Qy         65 [illegible]KNE[illegible]AKMMNQ[illegible]       KM[illegible]IS 113
Db         92 CAVIEEHMPKKQ[illegible]NE[illegible]MNE[illegible]ENKK[illegible]K[illegible]AA 151

Qy        114 E[illegible]AKE[illegible]V[illegible]NY[illegible]ENA[illegible]MEW[illegible]KAP[illegible]V[illegible]KH[illegible] 173
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Qy        217 VDSKENF[illegible]YLESQ[illegible]      --   VEMQA[illegible]KVMHV[illegible]NYS[illegible]SKH [illegible]
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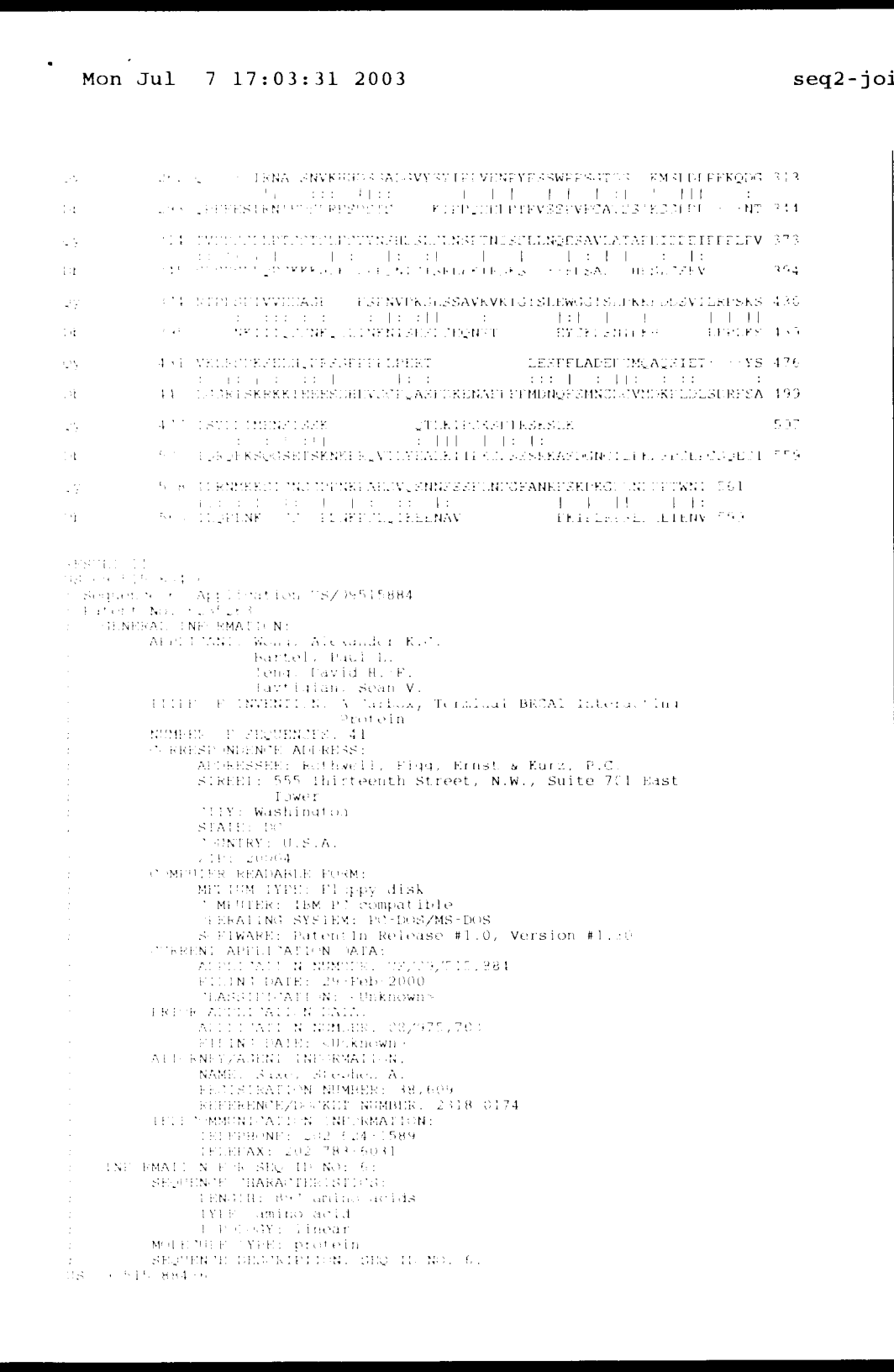
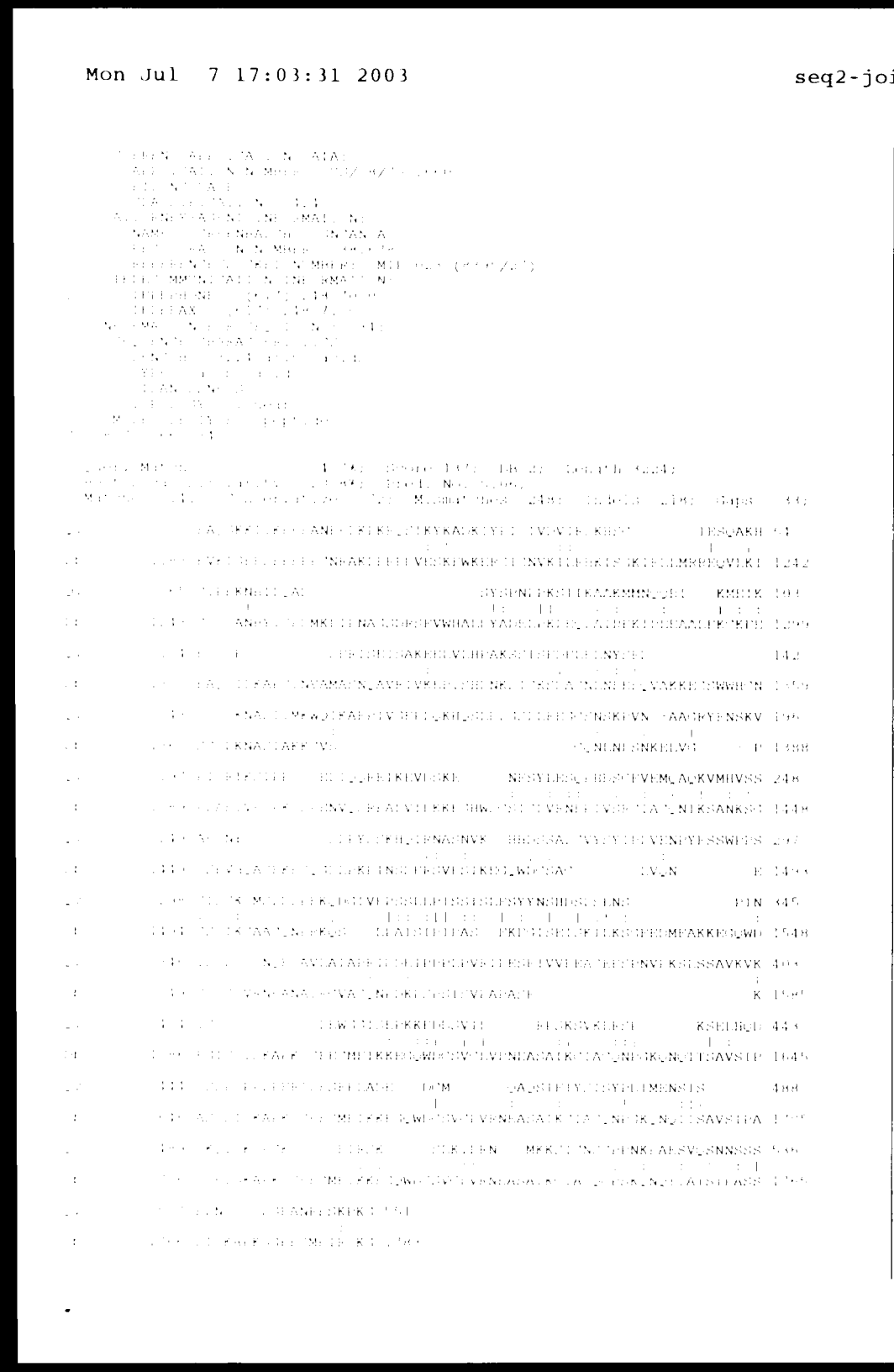


RESULT 12
US/08-705-660-34
; Sequence 34, Application US/08705660
; Patent No. 5858683
; GENERAL INFORMATION:
; APPLICANT: [illegible] CHAN
; APPLICANT: SPAR, ROBERT
; APPLICANT: WU, YING-JYE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
; TITLE OF INVENTION: DETECTION OF CERVICAL CANCER
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Testa, Hurwitz & Thibeault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30



RESULT 13
US-08-989-045-34
; Sequence 34, Application US/08989045
; Patent No. 6627905
; GENERAL INFORMATION:
; APPLICANT: KLEESE, SUSAN
; APPLICANT: OBAR, ROBERT
; APPLICANT: WU, YING JYE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
; TITLE OF INVENTION: DETECTION OF CERVICAL CANCER
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Iandiorio, Burwell & Thibeault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/989,045
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: GREENBLUM, BERNARD A
; REGISTRATION NUMBER: 30,678
; REFERENCE/DOCKET NUMBER: BIF 223 (8497/27)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248 7[illegible]
; TELEFAX: (617) 248 71[illegible]
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3224 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-989-045-34

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Db       14[illegible] ISSIF[illegible]N[illegible]NPVK[illegible]   [illegible]FATSIFTPAS  FFF[illegible]TSFTSFT[illegible]F[illegible]MFAKKFGQW[illegible] 15[illegible]

Qy        34[illegible] ISSL[illegible] -NQESAV[illegible]AIAPP[illegible]DP[illegible]PPPLPVETPPSPIVVEEAG[illegible]PNVPESLSSAVEVK 403
Db       154[illegible] [illegible]SS[illegible]LVKN[illegible]NA[illegible]VAC[illegible]NPDKP[illegible]PSTSVPAPASP                    K 158[illegible]

Qy       404 [illegible]S--------LEWGGISEPKKFDQSV[illegible]-----RPSKSVKLE[illegible]      KSELBQD 443
Db       158[illegible] [illegible]SFISKA[illegible]MF[illegible]W[illegible]SV[illegible]VKNFASAI[illegible]AC[illegible]NQ[illegible]AVS[illegible] 164[illegible]

Qy       444 KSSPP[illegible]FLPERI[illegible]P[illegible]DP---PCM       QAQSIETYSTCY[illegible]DTMENSTS --- 488
Db       164[illegible] ASS[illegible]SKA[illegible]NFTKK[illegible]W[illegible]SVC[illegible]VKNEASATK[illegible]AC[illegible]N[illegible]KQNQTTSAVSTPA 170[illegible]

Qy       48[illegible] SK[illegible]ILKIEGKS----ETPSK-----SLKILEN   MKKSI[illegible]NKFAPSVQSNNSSS 536
Db       17[illegible] SS[illegible]S[illegible]DMI[illegible]KK[illegible]W[illegible]V[illegible]VENFASATK[illegible]AC[illegible]Q[illegible]TAI[illegible]TPAS[illegible] 176[illegible]

Qy       5[illegible] PIN     E[illegible]FANKP[illegible]KP[illegible] 551
Db       17[illegible] EISKA[illegible]K[illegible]M[illegible] 17[illegible]
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RESULT 14
US-[illegible]-402-929-2
; Sequence 2, Application US/09402929
; Patent No. [illegible]
; GENERAL INFORMATION:
;   APPLICANT: Temple University - Of The Commonwealth System of Higher Education
;   APPLICANT: Toscani, Antonio
;   APPLICANT: [illegible]
;   APPLICANT: Reddy, E. P.
;   TITLE OF INVENTION: A [illegible] NULL MUTANT TRANSGENIC ANIMALS AND
;   TITLE OF INVENTION: USES THEREOF
;   NUMBER OF SEQUENCES: [illegible]
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: [illegible] [illegible]ONDA [illegible]AV[illegible]NA & MONACO, P.C.
;   STREET: Suite 1800 Two Penn Center Plaza
;   CITY: Philadelphia
;   STATE: PA
;   COUNTRY: U.S.A.
;   ZIP: [illegible]
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/402,929
;   FILING DATE:
;   CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: PCT/US98/06896
;   FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;   NAME: M[illegible], Daniel A.
;   REGISTRATION NUMBER: [illegible],480
;   REFERENCE/DOCKET NUMBER: 6056-214 PC
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (215) 568-8383
;   TELEFAX: (215) 568-[illegible]
; INFORMATION FOR SEQ ID NO: 2:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 751 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
US-[illegible]-402-929-2

Query Match 4.4%; Score 129; DB 4; Length 751;
Best Local Similarity 19.4%; Pred. No. 0.032;
Matches [illegible]; Conservative 95; Mismatches 221; Indels 174; Gaps 28;

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Qy       1[illegible]9    [illegible]TSF[illegible]V[illegible]N[illegible]K[illegible]EP[illegible]VGF[illegible] 16[illegible]
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RESULT 15
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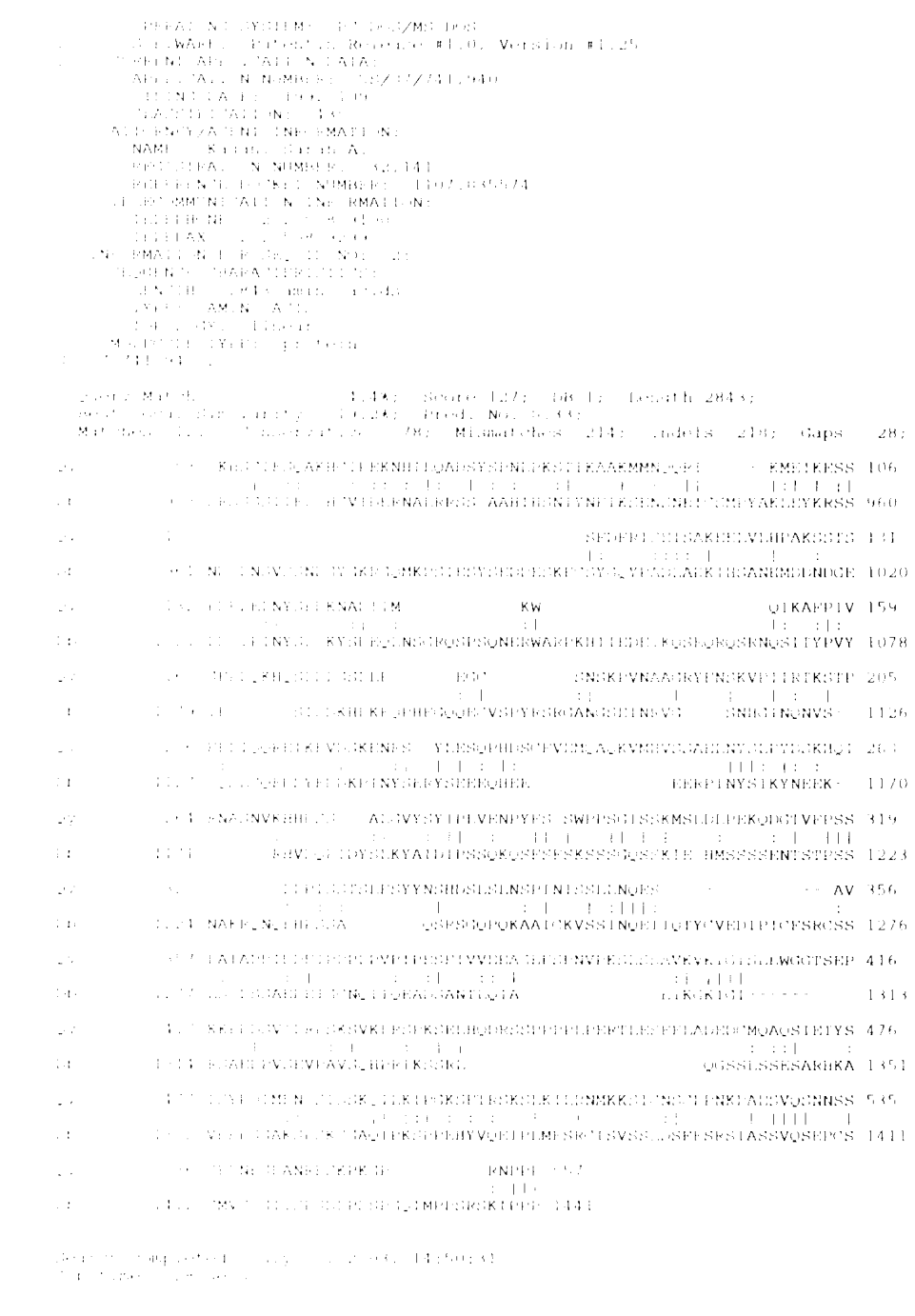
; Sequence 2, Application US/07741940
; Patent No. 5352775
; GENERAL INFORMATION:
;   APPLICANT: ALBERTSEN, HANS
;   APPLICANT: ANAND, RAKESH
;   APPLICANT: CARLSON, MARY
;   APPLICANT: GRODEN, JOANNA
;   APPLICANT: HEDGE, PHILIP J.
;   APPLICANT: JOSLYN, GEOFF
;   APPLICANT: KINZLER, KENNETH
;   APPLICANT: MARKHAM, ALEXANDER F.
;   APPLICANT: NAKAMURA, YUSUKE
;   APPLICANT: THLIVERIS, ANDREW
;   TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
;   TITLE OF INVENTION: GENE IN COLORECTAL CANCERS IN HUMANS
;   NUMBER OF SEQUENCES: 94
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Banner, Birch, McKie & Beckett
;   STREET: 1001 G Street, NW
;   CITY: Washington
;   STATE: D.C.
;   COUNTRY: USA
;   ZIP: 20001-4598
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible



GeneCore version 5.1.6

SM protein - protein search, using sw model

Run on: July 7, 2003, 14:25:45 ; Search time 23.78 Seconds
(without alignments)
2480.711 Million cel. updates/sec

Title: US-09-822-295-2_COPY_295_807
Perfect score: 2667
Sequence: 1 DVIKDEHSGIESQAKHCIPF FANREFSKPKGPSNPPPTWNI 513

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440663 seqs, 114992915 residues

Total number of hits satisfying chosen parameters: 440663

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	2667	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	1712	64.4	421	6	US-10-102-806-606	Sequence 606, App
3	1466.5	55.0	802	10	US-09-822-295-18	Sequence 18, Appl
4	122	4.6	1367	10	US-09-801-368-108	Sequence 108, App
5	102.5	3.8	1142	9	US-10-085-108-7	Sequence 7, Appli
6	102.5	3.8	1142	9	US-10-207-655-79	Sequence 79, Appl
7	101	3.8	80	10	US-09-822-295-16	Sequence 16, Appl
8	100.5	3.8	1142	10	US-09-899-651-2	Sequence 2, Appli
9	94	3.5	80	10	US-09-822-295-17	Sequence 17, Appl
10	88.5	3.3	81	10	US-09-822-295-15	Sequence 15, Appl
11	84	3.1	2344	10	US-09-815-242-12713	Sequence 12713, A
12	83	3.1	5877	9	US-10-142-515-11	Sequence 11, Appl
13	80	3.0	5945	6	US-10-243-243A-8	Sequence 8, Appli
14	78.5	2.9	860	10	US-09-815-242-13057	Sequence 13057, A
15	78	2.9	1163	9	US-09-932-257A-3	Sequence 3, Appli
16	78	2.9	1601	10	US-09-862-027-40	Sequence 40, Appl
17	77.5	2.9	2843	8	US-08-681-219-32	Sequence 32, Appl
18	75	2.8	1736	10	US-09-919-497-98	Sequence 98, Appl
19	74.5	2.8	2597	10	US-09-905-129-2	Sequence 2, Appli
20	74.5	2.8	2597	10	US-09-905-129-10	Sequence 10, Appl
21	74.5	2.8	2597	10	US-09-905-129-13	Sequence 13, Appl
22	74.5	2.8	2597	10	US-09-991-630-2	Sequence 2, Appli
23	74.5	2.8	2597	10	US-09-991-630-10	Sequence 10, Appl
24	74.5	2.8	2597	10	US-09-991-630-13	Sequence 13, Appl
25	74.5	2.8	2843	9	US-09-987-482-1	Sequence 1, Appli
26	73.5	2.8	1139	9	US-09-820-84-A-15	Sequence 15, Appl
27	73	2.7	1325	10	US-09-864-761-35612	Sequence 35612, A
28	71.5	2.7	1478	10	US-09-801-368-52	Sequence 52, Appl
29	70	2.6	1347	9	US-10-083-357-1340	Sequence 1340, Ap
30	70	2.6	1544	9	US-10-074-475-285	Sequence 285, App
31	68	2.6	1347	9	US-10-083-357-1293	Sequence 1293, Ap
32	66.5	2.5	1702	9	US-09-854-133-434	Sequence 434, App
33	66.5	2.5	1702	9	US-10-144-649A-434	Sequence 434, App
34	66.5	2.5	1702	10	US-09-738-975-434	Sequence 434, App
35	66	2.5	639	10	US-09-825-144-9	Sequence 9, Appli
36	66	2.5	639	10	US-09-823-240-5	Sequence 5, Appli
37	66	2.5	912	9	US-09-987-482-2	Sequence 2, Appli
38	66	2.5	1192	10	US-09-789-386-2	Sequence 2, Appli
39	66	2.5	1192	10	US-09-893-346-23	Sequence 23, Appl
40	65.5	2.5	502	10	US-09-815-242-5904	Sequence 5904, Ap
41	65.5	2.5	1530	9	US-10-118-513A-6	Sequence 6, Appli
42	65.5	2.5	1770	10	US-09-801-368-298	Sequence 298, App
43	65.5	2.5	2266	9	US-10-118-513A-14	Sequence 14, Appl
44	65	2.4	661	10	US-09-770-595A-22	Sequence 22, Appl
45	65	2.4	1481	10	US-09-371-900-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PI3K4 RELATED DISEASES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,445
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids

[illegible]
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: [illegible]
[illegible]

Query Match 100.0%; Score 2667; DB 10; Length 807;
Best Local Similarity [illegible]%; Pred. No. [illegible];
Matches [illegible]; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db [illegible] [illegible]VEMQAQKVMHVSSAELNYSLPY[illegible]SKHQIRNASNVKHHDSSALGVYSYIPLVEN 534

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Db [illegible] [illegible]KMS[illegible]EKQ[illegible]IVEPSSLLP[illegible]SSTSLPSYYNSHDSLSLNSPTNISS 594

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RESULT 2
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; [illegible] No. [illegible]44[illegible]A1
; GENERAL INFORMATION:
; APPLICANT: [illegible]
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: [illegible]
; CURRENT APPLICATION NUMBER: US/10/102,806
; CURRENT FILING DATE: [illegible]
; PRIOR APPLICATION NUMBER: [illegible]/925,298
; PRIOR FILING DATE: [illegible]
; PRIOR APPLICATION NUMBER: [illegible]
; PRIOR FILING DATE: [illegible]
; PRIOR APPLICATION NUMBER: [illegible]
; PRIOR FILING DATE: [illegible]
; NUMBER OF SEQ ID NOS: [illegible]
; SOFTWARE: [illegible] Ver. [illegible]
; SEQ ID NO [illegible]
; LENGTH: [illegible]
; TYPE: [illegible]
; ORGANISM: [illegible]
; FEATURE:
; NAME/KEY: [illegible]
; LOCATION: [illegible]
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
; NAME/KEY: SITE
; LOCATION: (285)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
US-10-102-806-606

Query Match 64.4%; Score 1717; DB 9; Length 331;
Best Local Similarity 99.4%; Pred. No. 3.5e-109;
Matches 329; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 183 HDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSSALGVYSYIPLVENPY 242
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Qy 243 FSSWPPSGISSKMSLDLPEKQDGIVFPSSLLPTSSTSLFSYYNSHDSLSLNSPTNISSLL 302
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Qy 363 GGTSEPKKFDDSVILRPSKSVKLRSPKSELHQDRSSPPPPLPERTIESFFLADEDCMQAQ 422
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Qy 483 SNNSSSFLNFGFANRFSKPKGPRNPPPTWNI 513
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RESULT 3
US-09-822-295-18
; Sequence 18, Application US/09822295
; Patent No. US20020119561A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 231/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440

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;          TELEX: 67-6510
;    INFORMATION FOR SEQ ID NO: 18:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 802 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

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Db        355 SSLGLRTSIMNAEEELVLHSAKSSPSFNCLELNCGCNNKAVIIKNGQAKASPVVGEPLQK 414

Qy        118 HQSLDLGSLLFPGCSNSKPVNAAGRYPNSKVPITRTKSTPFPELIQQREIKEVDSKENFSY 177
Db        415 YQSLDFGSMLFGSCFSALFINTADRYHNSKGPVKRIKSIPPEELIQQEKINDLAVGDGFSC 474

Qy        178 IFSQFHHSCFV-RMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSSALGVTSYIF 236
Db        475 LESQIHEHYSLREELVQEVAHVSSEELNYSLP        GACDASCVPFHCPCALPVHLYTS 529

Qy        237 LVENPYPSCWPPGGTSCKHSLDLPEKQDGTVTPGSLLPTSSTSLFSYYNSHDSLSLNSPT 296
Db        530 LA[illegible]SFPNQALSKMSLLPEKQLGAISPCALLTASSTTSFPYSNTHDSLVMNTLT 589

Qy        297 NISSLLNQESAVLATAPRIDDEIPPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKI 356
Db        590 SPSPPLNQETAVEALSAKIDDEIPPPLPERTPESFIVVEEAGEFSPRVTESL -PLVVTP 647

Qy        357 GSLEWGGTSEPKKFDDSVLLRPSKSVKLRSPKSELHQDRSSPPPPLPERTLESFFLADE 416
Db        648 GASPECSGTSEMKS-H-SVGEIPSKNVKLRSPKGDRHQD-GSPPPPLPERTLESFFLADE 705

Qy        417 DCMQAQSIETYSTSYPDTMENSTSSKQTLKTPGKSFTRSKSLKIFRNMKKSICNSCPPNE 476
Db        706 DCIQAQAVQTSSTSYPETTENSTSSKQTLKTPGKSFTRSKSLKIFRNMKKSVCNSSGPSE 765

Qy        477 PAEPVQSNNSSSFLNFGFANRLQEPKGPRNPPTTWNI 513
Db        766 PTERVQPKNSSSFLNFGFNNRPSKPKGPRNPPSAWNM 802


RESULT 4
US-09-801-368-108
; Sequence 108, Application US/09801368
; Patent No. US20020128250A1
; GENERAL INFORMATION:
;  APPLICANT:  Busby, Robert
;  APPLICANT:  Cali, Brian
;  APPLICANT:  Hecht, Peter
;  APPLICANT:  Holtzman, Doug
;  APPLICANT:  Maiden, Kevin
;  APPLICANT:  Maxon, Mary
;  APPLICANT:  Milne, Todd
;  APPLICANT:  No. US20020128250Alman, Thea
;  APPLICANT:  Royer, John
;  APPLICANT:  Salama, Sofie
;  APPLICANT:  Sherman, Amir
;  APPLICANT:  Silva, Jeff
;  APPLICANT:  Summers, Eric
;  TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
;  FILE REFERENCE: 109272.147
;  CURRENT APPLICATION NUMBER: US/09/801,368
;  CURRENT FILING DATE:  2001-03-07
;  PRIOR APPLICATION NUMBER: US 09/487,558
;  PRIOR FILING DATE: 2000-01-19
;  PRIOR APPLICATION NUMBER: US 60/160,587
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 440
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 108
;   LENGTH: 1367
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-09-801-368-108

  Query Match              6.6%;  Score 177;  DB 10;  Length 1367;
  Best Local Similarity   22.3%;  Pred. No. 0.0013;
  Matches  102;  Conservative   54;  Mismatches  225;  Indels   76;  Gaps   12;

Qy         36 KSTTKAAKMMNQQRTKMEIKESSSFDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDK 95
Db        209 KSSTTTSSTSESSTTTSSTSESSTTTSSTSESST--------TTSSTSESSTSSSTTAPA 260

Qy         96 NADTTMKWQTKAFPIVGEPLQKHQSLDLGSLLFPGCSNSKPVNAAGRYPNSKVPITRTKS 155
Db        261 TPTTTSCTKEKPTPPT                ---TTSCTKEKPTPP---EHDPTPCTKKKT 300

Qy        156 TPFPELIQQREIKEVDSKENFSYIFSQFHHSCFVRMQAQKVMHVSSAELNYSLPYDSKHQI 215
Db        301 TISKTCTEKTTIPVPTPSS-PTTPS     SSAPVPTPSSST PSSSAPVISSTTESSSAPV 356

Qy        216 RNASNVKHHDSSALGVYSYIPLVENPYPSCWPP  SGTSSKMSLDLPEKQDGTVEPSS L 273
Db        357 PTPSSSTTESSSA---   ---PVTSSTTESSSAPVISSTTESSSAPVPTPSSSTTESSSAP 409

Qy        274 LTSSTSLFSYYNSHDS[illegible] 333
Db        410 VTSSTTESSSAPVTSSTTESSSAPVTSSTTESSSAPVTSSTTESS---SAPVPTPSSSTT 466

Qy        334 VEEAGEFSPNVPKSLSSAVKVKIGTSLEWGG---TSEPKKFDDSVLLRPSKSVKLRSPKS 390
Db        467 ESSSAPVTSSTTESSSAPVPTPSSSTTESSSAPVTSSTTESSSAPVPTPSSSI         519

Qy        391 ELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIETYSTSYPDTMENSTSSKQTLKTPGK 450
Db        520   -TESSSAPAPTP-----------------SSSTTESSSAPVTSSTTESSSAPVPTPSS 559

Qy        451 SFTRSKSLKIIRNMKKSICNSCPPNEPAESVQSNNSS 487
Db        560 STTESSSTPVTSSTTES--SSAPVPTPSSSTTESSSA 594


RESULT 5
US-10-085-108-7
; Sequence 7, Application US/10085108
; Patent No. US20020176865A1
;    GENERAL INFORMATION:
;         APPLICANT: LUCAS, Sophie; BOON-FALLEUR, Thierry
;         TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES CODING
;                             FOR
;                             TUMOR REJECTION ANTIGEN PRECURSORS OF MEMBERS OF THE MA
;                             MAGE-B FAMILIES AND USES THEREOF
;         NUMBER OF SEQUENCES: 26
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Fulbright & Jaworski L.L.P.
;              STREET: 666 Fifth Avenue
;              CITY: New York City
;              STATE: New York
;              COUNTRY: USA
;              ZIP: 10103
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;              COMPUTER: IBM PS/2
;              OPERATING SYSTEM: PC-DOS
;              SOFTWARE: Wordperfect
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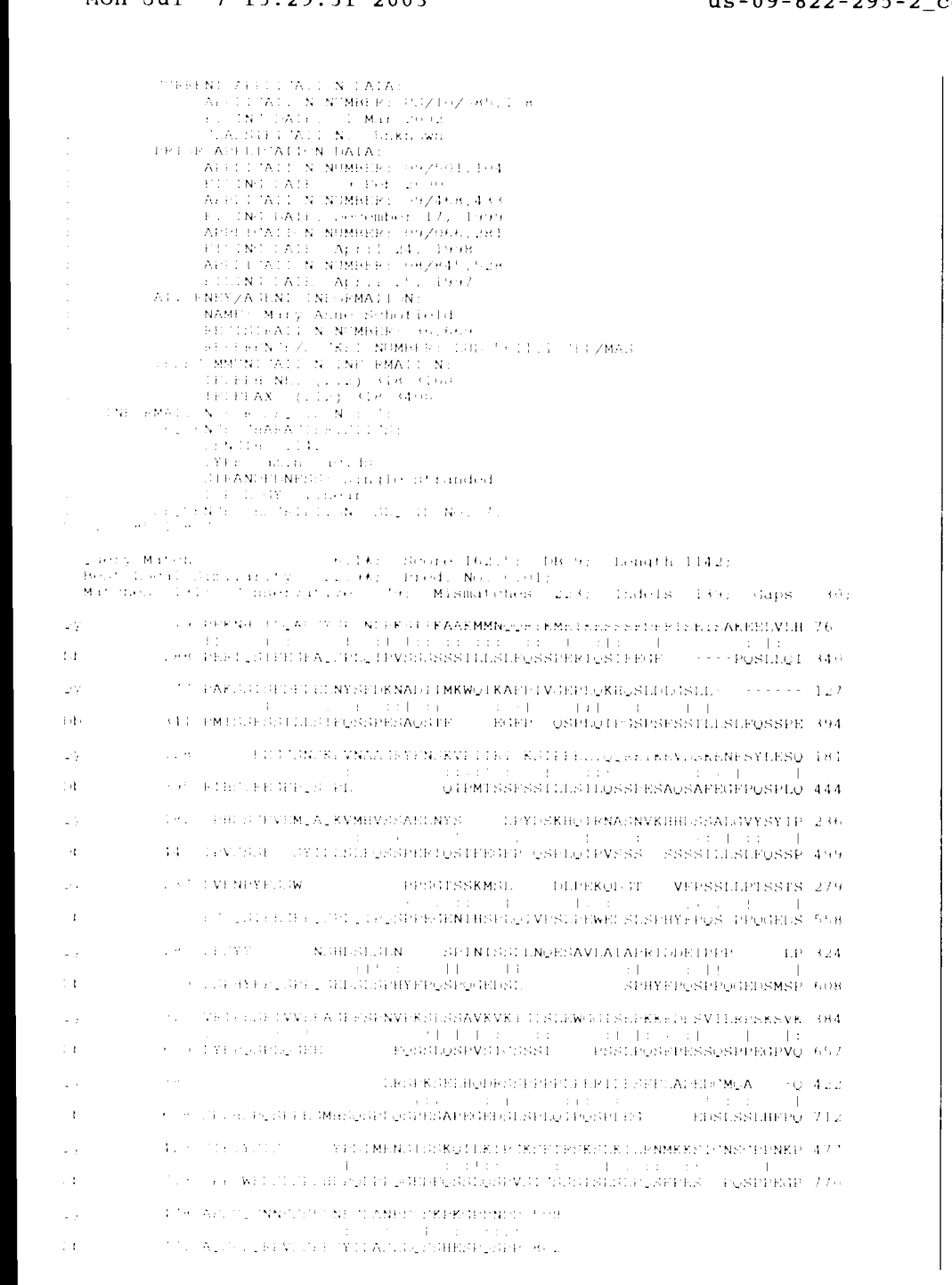

RESULT 6
US-10-207-655-79
; Sequence 79, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-26
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-207-655-79

Query Match 6.1%; Score 162.5; DB 9; Length 1142;
Best Local Similarity 22.9%; Pred. No. 0.01;
Matches 131; Conservative 79; Mismatches 223; Indels 133; Gaps 30;

RESULT 7
US-09-822-295-2
; Sequence 16, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF

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;                          PTP04 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Lyon & Lyon
;              STREET: 633 West Fifth Street
;                      Suite 4700
;              CITY: Los Angeles
;              STATE: California
;              COUNTRY: U.S.A.
;              ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                           storage
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: IBM P.C. DOS 5.0
;              SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/822,295
;              FILING DATE: 02-Apr-2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 09/081,415
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Warburg, Richard J.
;              REGISTRATION NUMBER: 32,327
;              REFERENCE/DOCKET NUMBER: 234/253
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (213) 489-1600
;              TELEFAX: (213) 955-0440
;              TELEX: 67-3510
;    INFORMATION FOR SEQ ID NO: 16:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 30 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-822-295-16

  Query Match             6.0%;  Score 161;  DB 10;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 8.7e-05;
  Matches   30;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0,

Qy        205 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 234
Db          1 YSLPYDSKHQIRNASNVKHHDSSALGVYSY 30

RESULT 8
US-09-899-651-2
; Sequence 2, Application US/09899651
; Patent No. US20020111470A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Yao-Tseng
;  APPLICANT: Gure, Ali
;  APPLICANT: Tsang, Selam
;  APPLICANT: Stockert, Elisabeth
;  APPLICANT: Jager, Elke
;  APPLICANT: Knuth, Alexander
;  APPLICANT: Old, Lloyd J.
;  TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer
;  TITLE OF INVENTION: Associated
;  TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof
;  FILE REFERENCE: LUD 5538
;  CURRENT APPLICATION NUMBER: US/09/899,651
;  CURRENT FILING DATE: 2001-07-06
;  PRIOR APPLICATION NUMBER: US/09/061,739
;  PRIOR FILING DATE: 1998-04-17
;  NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
;   LENGTH: 114
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
US-09-899-651-2

  Query Match             5.9%;  Score 157.5;  DB 10;  Length 1142;
  Best Local Similarity   22.9%;  Pred. No. 0.022;
  Matches  131;  Conservative   76;  Mismatches  226;  Indels  139;  Gaps   30;

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Db        288 PFRTQSTFFGFAQSPLQIPVSFSFSSTLVSIFQSSFERTQSTFEGFPQSPLQI------ 340

Qy         77 PAKSSTSFDFLELNYSFDKNADTTMKWQTKAFPIVGFPLQKHQSLDLGSLL------ 127
Db        341 FVSSSFSSTLLSLFQSSPFFTQSTF---FQFP-QSPLQIPQSPSFSSTLLSLFQSSPF 394

Qy        128 -----FFCCSNSKPVNAACPYFNCKVPITPT-KSTPFF IQQRFTKFVDSKFNPSYLFSQ 181
Db        395 FTHSTFEGFPQS-PL------ ---QIPMTSSFSSTLLSILQSSPESAQSAFEGFPQSPLQ 444

Qy        182 FHDSCFVFMQAQKVMHVSSAFLNYS  LPYDSKHQIRNASNVKHHDSSALGVYSYIP 236
Db        445 IPVSSSF SYTLLSLFQSSPFRTHSTFFGFP-QSPLQIPVSSS--SSSSTLLSLFQSSP 499

Qy        237 IVENPYFSSW-----------PPSGTSSKMSL--- DLPEKQDGT-- VEPSSLLPTSSIS 279
Db        500 FCTQSTFEGFPQSPLQIPQSPPECENTHSPLQIVPSLPEWEDSLSPEYFPQS PPQGEDS 558

Qy        280 LFSYY      -NSHDSLSLN     SFTNISSLLNQFCAVLALAPPIDPEIFPP  LP 324
Db        559 LSPHYFPQSPPQGEDSLSPHYFPQSFQGEDSL--------SPHYFPQSFPQGEDSMSP 608

Qy        325 VRTPESPIVVEEACEE... 384
Db        609 LYFPQSPLQGEE-------FQSSLQSPVSICSSST----PSSLPQSFPESSQSPPEGPVQ 657

Qy        385 -------------------LRSPKSF HQDRSSPPPPLPERTLESFFLADEDCMQA---Q 422
Db        658 SPLHSPQSPPEGMHSQSPLQSPESAPFGFDSLSPLQIPQSPLEG----EDSLSSLHFPQ 712

Qy        423 SIETYS IS  -  YPQGMENSIRSFIIIFTIGF... 477
Db        713 SFPEWEDSLSPLHFPQFPPQGEDFQSSLQSPVSICSSSTSLSLPQSFPES--PQSPPEGP 770

Qy        478 AESVQSNNSSSFLNFGFANRF SKPKGPRNPP 508
Db        771 AQSPLQRPVSSFFSYTLASLLQSSHFSPQSPP 802

RESULT 9
US-09-822-295-17
; Sequence 17, Application US/09822295
; Patent No. US20020119501A1
;   GENERAL INFORMATION:
;         APPLICANT: Bahija Jallal
;                    Gregory D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             PTP04 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Lyon & Lyon
;              STREET: 633 West Fifth Street
;                      Suite 4700
;              CITY: Los Angeles
;              STATE: California
;              COUNTRY: U.S.A.
;              ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                           storage
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: IBM P.C. DOS 5.0
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;              SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/822,2[illegible]
;              FILING DATE: [illegible] Apr 2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 09/[illegible]
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Wa[illegible], Richard J.
;              REGISTRATION NUMBER: 32,[illegible]
;              REFERENCE/DOCKET NUMBER: 234/25[illegible]
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (213) 489-1600
;              TELEFAX: [illegible] 0440
;              TELEX: [illegible]
;    INFORMATION FOR SEQ ID NO: 1[illegible]:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: [illegible] amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 1[illegible]:
US-09-822-295-1[illegible]

  Query Match              [illegible]%;  Score 149;  DB 10;  Length 3[illegible];
  Best Local Similarity    [illegible]%;  Pred. No. [illegible];
  Matches  [illegible];  Conservative    [illegible];  Mismatches    0;  Indels    0;  Gaps    0;

Qy         [illegible]KAAKMMNQQRIK 51
Db         [illegible]KAAKMMNQQRIK 2[illegible]


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; Sequence 1[illegible], Application US/09822295
; Patent No. US2002011[illegible]A1
;    GENERAL INFORMATION:
;         APPLICANT: [illegible]
;                    [illegible], D. Plowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             [illegible] 4 RELATED DISORDERS
;         NUMBER OF SEQUENCES: [illegible]
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Lyon & Lyon
;              STREET: [illegible] West Fifth Street
;                      Suite 4[illegible]
;              CITY: Los Angeles
;              STATE: California
;              COUNTRY: U.S.A.
;              ZIP: [illegible]
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                           storage
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: IBM P.C. DOS [illegible]
;              SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/822,2[illegible]
;              FILING DATE: [illegible] Apr 2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: [illegible]
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Wa[illegible], Richard J.
;              REGISTRATION NUMBER: [illegible]
;              REFERENCE/DOCKET NUMBER: 234/2[illegible]
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (213) 489-1600
;              TELEFAX: [illegible]
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;              TELEX: 67-3510
;    INFORMATION FOR SEQ ID NO: 15:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 31 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-822-295-15

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  Best Local Similarity    96.8%;  Pred. No. 0.00065;
  Matches   30;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

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Db          1 SWPPSGTSSKMSLDDLPEKQDGTVFPSSLLP 31


RESULT 11
US-09-815-242-12713
; Sequence 12713, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
;  APPLICANT: Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Zyskind, Judith W.
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John D.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: Identification of Essential Genes in
;  TITLE OF INVENTION:  Prokaryotes
;  FILE REFERENCE: ELITRA.011A
;  CURRENT APPLICATION NUMBER: US/09/815,242
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  NUMBER OF SEQ ID NOS: 14110
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12713
;   LENGTH: 2344
;   TYPE: PRT
;   ORGANISM: Staphylococcus aureus
US-09-815-242-12713

  Query Match              5.3%;  Score 141;  DB 10;  Length 2344;
  Best Local Similarity    22.0%;  Pred. No. 0.78;
  Matches  116;  Conservative   78;  Mismatches  236;  Indels   98;  Gaps   20;

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Qy         56 ESSSFD[illegible]          S[illegible]AKEFIV[illegible]AF[illegible]   [illegible]NY[illegible]KNA[illegible]MK 1[illegible]2
Db       1097 Q[illegible]SAS[illegible]A[illegible]SVS[illegible]SVS[illegible]NSERTSTSMS 1156

Qy        1[illegible] W[illegible]EA[illegible]V[illegible]NTPVNAATEYENTEVF[illegible]IRIETTPT[illegible]IQ 162
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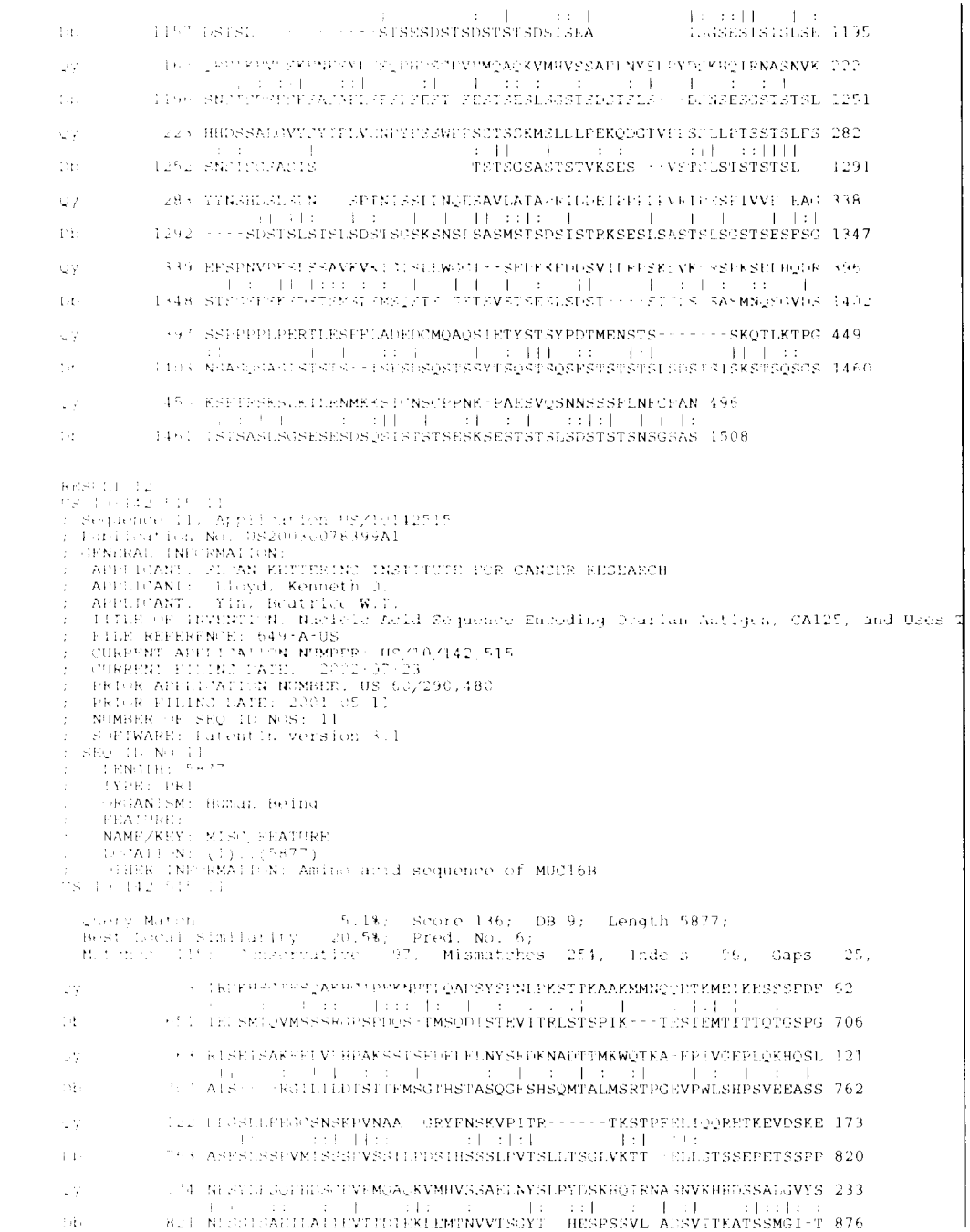

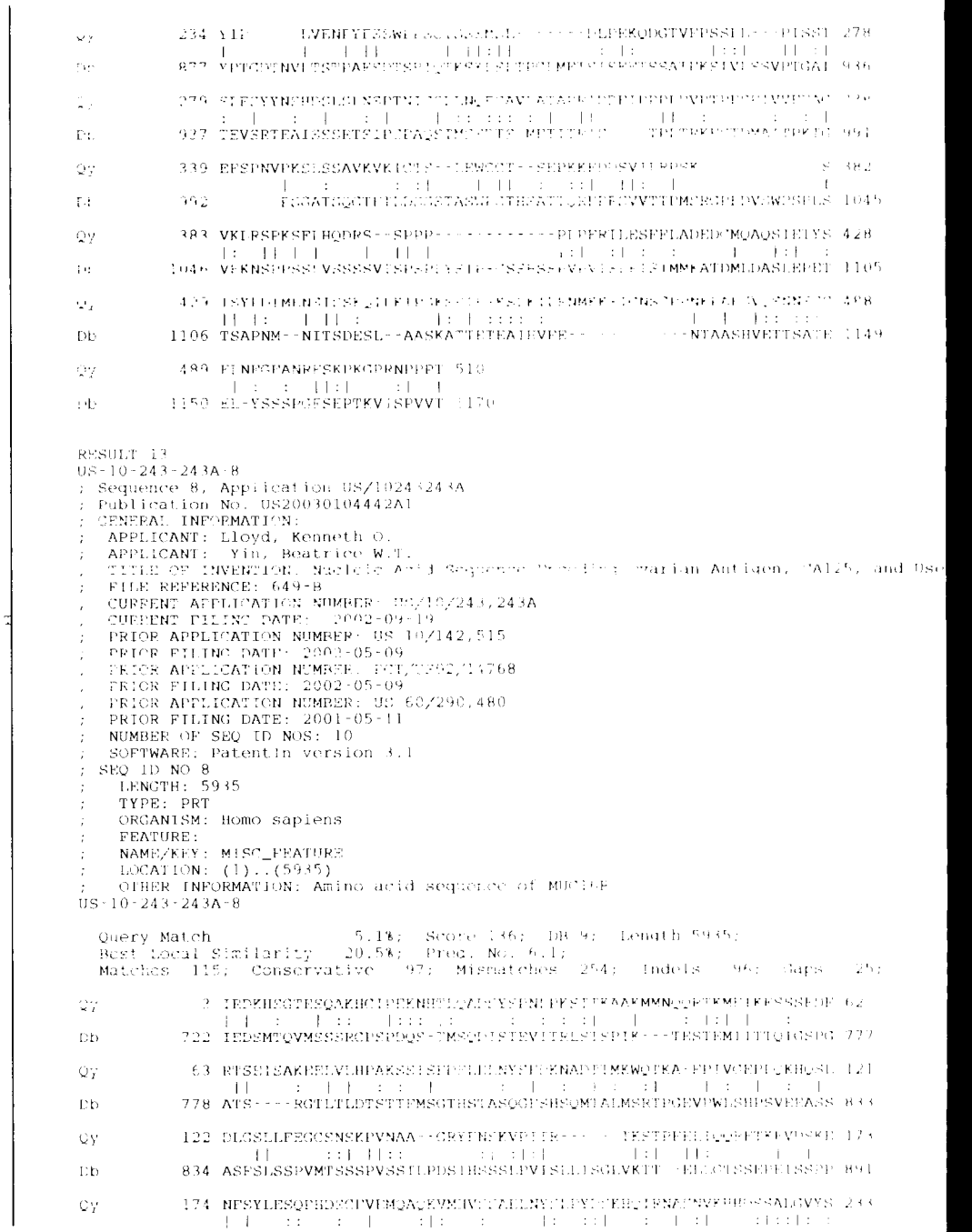

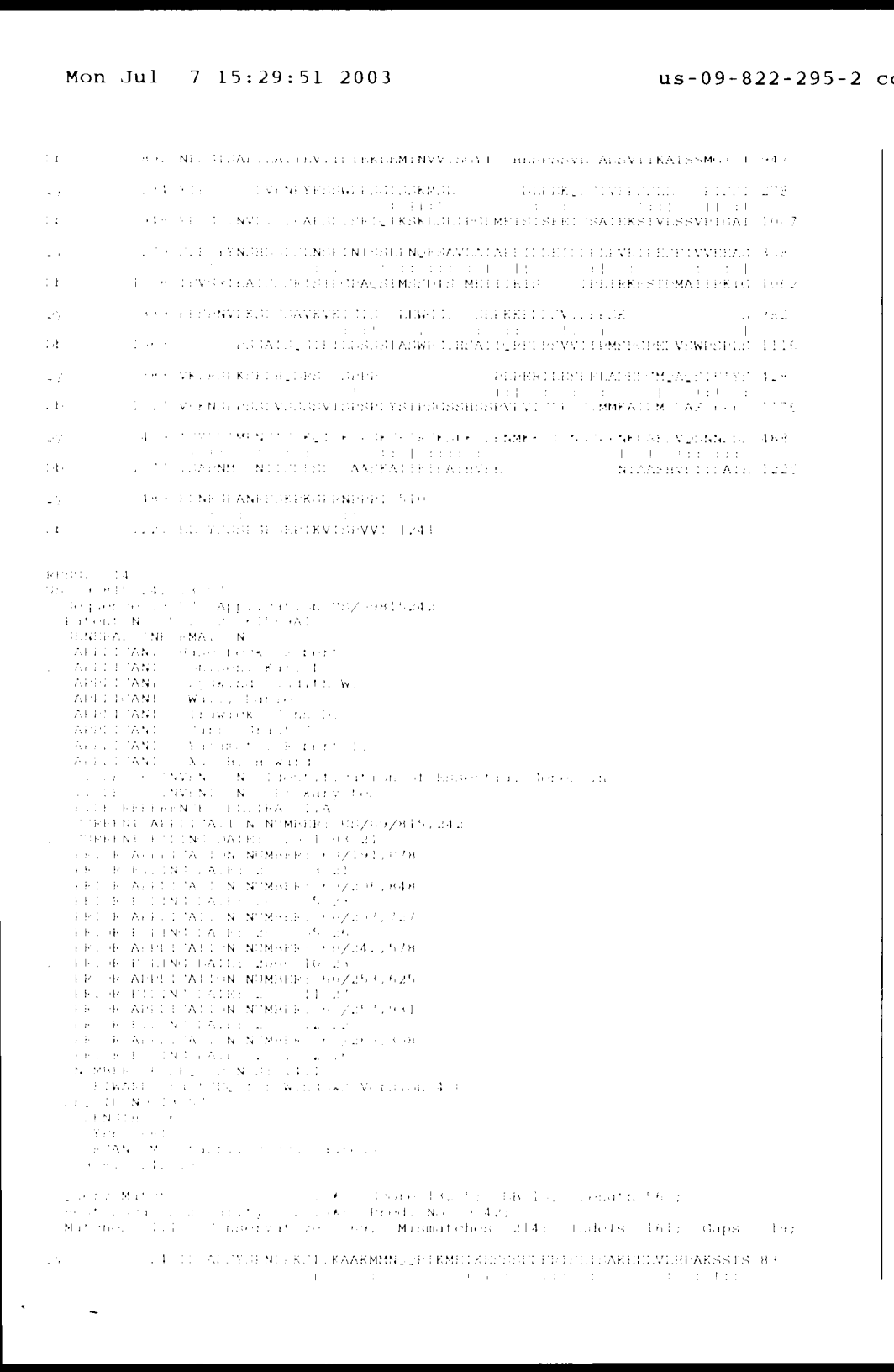

RESULT 14
; Sequence 3, Application US/09932257A
; Publication No. US20030039658A1
; GENERAL INFORMATION:
; APPLICANT: Estable, Mario
; APPLICANT: Rooder, Robert
; TITLE OF INVENTION: MYEF, A No. US20030039658A1e1 Transcription Factor
; FILE REFERENCE: 600 1 269N
; CURRENT APPLICATION NUMBER: US/09/932,257A
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/226,340
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: 60/226,339
; PRIOR FILING DATE: 2000-08-18
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 1163
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1086)..(1086)
; OTHER INFORMATION: X is any amino acid
US 09 932 257A-3

Query Match 4.9%; Score 142; DB 9; Length 1163;
Best Local Similarity 19.7%; Pred. No. 1.2;
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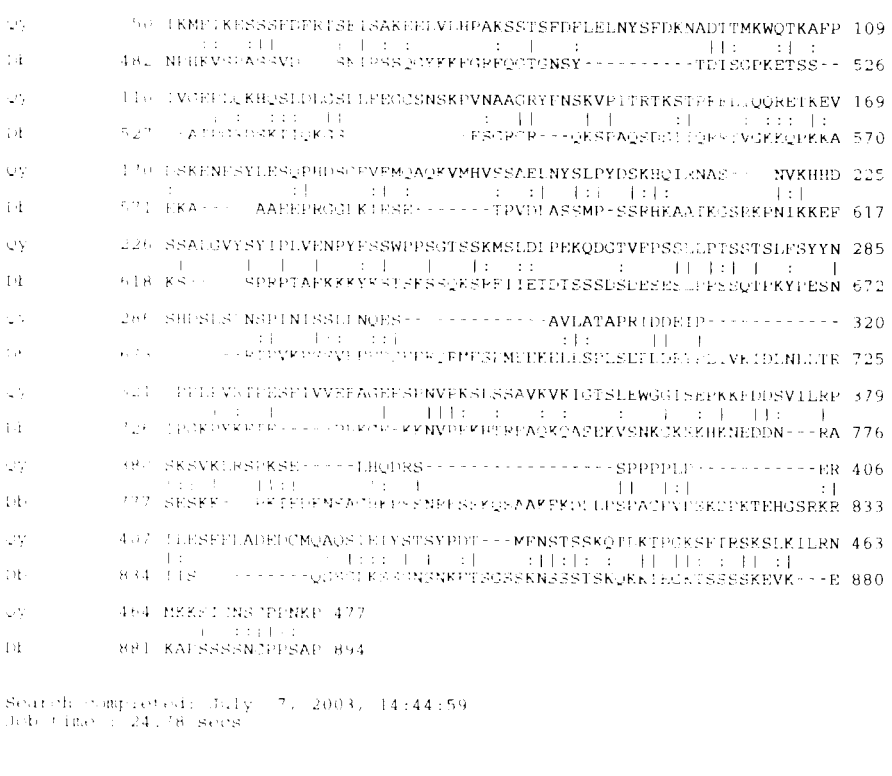

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GenCore version 5.1.6

OM protein - protein search, using sw model

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Title: US-09-822-295-2_COPY_295_807
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Sequence: 1 DVIRDKHSGTESQAKHCIPE.....FANRFSKPKGPENPPPTWNI 513

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Prob. N.: is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1490.5	55.9	802	4	US-09-081-345-18	Sequence 18, Appl
3	1062.5	39.8	1142	2	US-08-993-118-7	Sequence 7, Appli
4	1062.5	39.8	1142	3	US-08-845-528C-7	Sequence 7, Appli
5	161	6.0	30	4	US-09-081-345-16	Sequence 16, Appl
6	152.5	5.7	1142	4	US-09-061-709-2	Sequence 2, Appli
7	152.5	5.7	2137	4	US-09-134-0C1C-4463	Sequence 4463, Ap
8	149	5.6	30	4	US-09-081-345-17	Sequence 17, Appl
9	148.5	5.6	31	4	US-09-081-345-15	Sequence 15, Appl
10	128.5	4.8	3224	2	US-08-705-660-34	Sequence 34, Appl
11	128.5	4.8	3224	3	US-08-989-045-34	Sequence 34, Appl
12	127	4.8	2843	1	US-07-741-946-2	Sequence 2, Appli
13	127	4.8	2843	1	US-08-289-548A-2	Sequence 2, Appli
14	127	4.8	2843	1	US-08-452-654-2	Sequence 2, Appli
15	127	4.8	2843	2	US-08-370-235A-2	Sequence 2, Appli
16	127	4.8	2843	4	US-08-449-731-2	Sequence 2, Appli
17	125.5	4.7	897	3	US-08-975-703-6	Sequence 6, Appli
18	125.5	4.7	897	4	US-09-515-884-6	Sequence 6, Appli
19	124.5	4.7	2842	1	US-07-741-949-7	Sequence 7, Appli
20	124.5	4.7	2842	1	US-08-289-548A-7	Sequence 7, Appli
21	124.5	4.7	2842	1	US-08-452-654-7	Sequence 7, Appli
22	124.5	4.7	2842	4	US-08-449-731-7	Sequence 7, Appli
23	124.5	4.7	2843	1	US-08-452-655B-2	Sequence 2, Appli
24	124.5	4.7	2843	1	US-08-452-655B-7	Sequence 7, Appli
25	124.5	4.7	2843	3	US-08-450-582-2	Sequence 2, Appli
26	124.5	4.7	2843	3	US-08-450-582-7	Sequence 7, Appli
27	124.5	4.7	2973	2	US-08-821-355A-7	Sequence 7, Appli
28	124.5	4.7	2973	2	US-09-013-687A-7	Sequence 7, Appli
29	124.5	4.7	2973	4	US-09-136-605-7	Sequence 7, Appli
30	124	4.6	751	4	US-09-402-929-2	Sequence 2, Appli
31	121	4.5	1068	1	US-08-396-479B-12	Sequence 12, Appl
32	121	4.5	1068	1	US-08-818-823-12	Sequence 12, Appl
33	120	4.5	2409	6	5780808-2	Patent No. 5780808
34	118	4.4	976	4	US-08-894-997-50	Sequence 50, Appl
35	117.5	4.4	834	1	US-08-471-044-21	Sequence 21, Appl
36	117.5	4.4	834	2	US-08-471-044-21	Sequence 21, Appl
37	117.5	4.4	834	2	US-08-463-483A-21	Sequence 21, Appl
38	117.5	4.4	834	2	US-08-471-046A-21	Sequence 21, Appl
39	117.5	4.4	834	2	US-08-470-566B-21	Sequence 21, Appl
40	117.5	4.4	834	2	US-08-469-834-21	Sequence 21, Appl
41	117.5	4.4	834	3	US-09-300-529-21	Sequence 21, Appl
42	117	4.4	907	3	US-08-783-774-2	Sequence 2, Appli
43	117	4.4	907	4	US-09-328-599A-1	Sequence 1, Appli
44	117	4.4	907	5	PCT-US95-04611A-19	Sequence 19, Appl
45	116	4.3	1075	5	PCT-US94-07297-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTPD4 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 384/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 2667; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 3.2e-218;

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;   APPLICANT: [illegible]
;   APPLICANT: [illegible] Plowman
;   TITLE OF INVENTION: [illegible] AND TREATMENT [illegible]
;   TITLE OF INVENTION: [illegible] RELATED DISORDERS
;   NUMBER OF SEQUENCES: [illegible]
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: [illegible]
;   STREET: [illegible] West [illegible] Street
;   STREET: [illegible]
;   CITY: [illegible] Angeles
;   STATE: [illegible]
;   COUNTRY: [illegible]
;   ZIP: [illegible]
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: [illegible] Diskette, 1.44 Mb
;   COMPUTER: [illegible]
;   OPERATING SYSTEM: [illegible]
;   SOFTWARE: [illegible] Windows 2.0
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: [illegible]
;   FILING DATE: [illegible]
;   CLASSIFICATION: [illegible]
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: [illegible]
;   FILING DATE: [illegible]
;   ATTORNEY/AGENT INFORMATION:
;   NAME: [illegible]
;   REGISTRATION NUMBER: [illegible]
;   REFERENCE/DOCKET NUMBER: [illegible]/253
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (213) 489-1600
;   TELEFAX: (213) 955-0440
;   TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: [illegible]8:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 802 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-09-081-345-18

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  Matches  315;  Conservative   54;  Mismatches  135;  Indels   13;  Gaps    6;

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Qy      118 [illegible]QS[illegible]NS[illegible]VNAA[illegible]YFN[illegible]KV[illegible]IK[illegible]ENFSY 177
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Qy      178 [illegible]EM[illegible]AL[illegible]KVM[illegible]AKLNY[illegible]KH[illegible]NV[illegible]ALGVYSYIP 236
Db      475 LESQLHEHYSLKEEQVQKVAHV[illegible]SEELNYSLF       GACDASCVERHSPGALRVHLYTS 529

Qy      237 LVENFY[illegible]SW[illegible]SKMS[illegible]EKQ[illegible]VI[illegible]YNSE[illegible]SLSLNSPI 296
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Qy      297 NIS[illegible]N[illegible]SAV[illegible]VVE[illegible]VE[illegible] 356
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Qy      357 [illegible]S[illegible]W[illegible]SE[illegible]SKSV[illegible]RSP[illegible]HQD[illegible]SSP[illegible]RIIESFELADE 416
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Qy      417 [illegible]MQAQ[illegible]IEIY[illegible]MEN[illegible]SSK[illegible]NMK[illegible]N[illegible]NK 476
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Qy      477 PAE[illegible]VQ[illegible]NNSSS[illegible]LNF[illegible]ANK[illegible]KPK[illegible]RNPPPIWNI 513
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RESULT 3
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; Sequence 7, Application US/08993118
; Patent No. 5997872
; GENERAL INFORMATION:
;   APPLICANT: LUCAS, Sophie;
;   APPLICANT: DE SMET, Charles;
;   APPLICANT: BOON-FALLEUR, Thierry
;   TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
;   TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
;   TITLE OF INVENTION: THEREOF
;   NUMBER OF SEQUENCES: 14
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Felfe & Lynch
;   STREET: 805 Third Avenue
;   CITY: New York City
;   STATE: New York
;   COUNTRY: USA

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;       ZIP:  10022
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;       COMPUTER:  IBM PS/2
;       OPERATING SYSTEM:  PC-DOS
;       SOFTWARE:  Wordperfect
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/393,118
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/845,528
;       FILING DATE:  April 25, 1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Mary Anne Schofield
;       REGISTRATION NUMBER:  36,669
;       REFERENCE/DOCKET NUMBER:  LUD 5455
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 688-9200
;       TELEFAX:  (212) 838-3884
;   INFORMATION FOR SEQ ID NO:  7:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1142
;       TYPE:  amino acids
;       STRANDEDNESS:  single-stranded
;       TOPOLOGY:  linear
US-08-393-118-7

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  Best Local Similarity   22.9%;  Pred. No. 4.4e-05;
  Matches  131;  Conservative   79;  Mismatches  223;  Indels  139;  Gaps   30;

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Qy         77 PAKSSTSFDEFLNYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLDLGSLL---------- 127
Db        341 PMTSSFSSTLLSIFQSSPESAQSTF----EGFP--QSPLQIPGSPSFSSTLLSLFQSSPE 394

Qy        128 ----PEGCSNSKPVNAAGEYFNSKVPITET KSTFFELIQGKELKEVIGKENFSYLESQ 181
Db        395 RTHSTFEGFPQS-PL---------QIPMTSSFSSTLLSILQSSPESAQSAFEGFPQSPLQ 444

Qy        182 -PHDSCPVEMQAQKVMHVSSAELNYS----LPYDSKHQIRNASNVKHHDSSALGVYSYIP 236
Db        445 IPVSSSP--SYTLLSLFQSSPERTQSTFEGFP-QSPLQIPVSSS--SSSSTLLSLFQSSP 499

Qy        237 LVENPYFSSW------PPSGTSSKMSL----DLPEKQDGT---VFPSSLLPTSSTS 279
Db        500 ECTQSTFEGFPQSPLQIPQSPPEGENTHSPLQIVPSLPEWEDSLSPHYFPQS-PPQGEDS 558

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Qy        325 VRTPESPIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEWGGTSEPKKFDDSVILRPSKSVK 384
Db        609 LYFPQSPLQGEE-----PQSSLQSPVSICSSST----PSSLPQSFPESSQSPPEGPVQ 657

Qy        385 ---------------LRSPKSELHQDRSSPPPPLPERTLESFFLADEDCMQA----Q 422
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Qy        423 STETYSTS----YPDTMENSTSSKQTLKTPGKSFTRSKSLKILRNMKKSICNSCPPNKP 477
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Qy        478 AESVQSNNSSSFLNFGFANKF SKPKGPRNPP 508
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RESULT 4
US-08-845-528C-7
; Sequence 7, Application US/08845528C
; Patent No. 6027924
;  GENERAL INFORMATION:
;     APPLICANT:  LUCAS, Sophie;
;     APPLICANT:  DE SMET, Charles;
;     APPLICANT:  BOON-FALLEUR, Thierry
;     TITLE OF INVENTION:  ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
;     TITLE OF INVENTION:  REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
;     TITLE OF INVENTION:  THEREOF
;     NUMBER OF SEQUENCES:  14
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Felfe & Lynch
;       STREET:  805 Third Avenue
;       CITY:  New York City
;       STATE:  New York
;       COUNTRY:  USA
;       ZIP:  10022
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;       COMPUTER:  IBM PS/2
;       OPERATING SYSTEM:  PC-DOS
;       SOFTWARE:  Wordperfect
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/845,528C
;       FILING DATE:  April 25, 1997
;       CLASSIFICATION:  4335
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Mary Anne Schofield
;       REGISTRATION NUMBER:  36,669
;       REFERENCE/DOCKET NUMBER:  LUD 5455
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 688-9200
;       TELEFAX:  (212) 838-3884
;  INFORMATION FOR SEQ ID NO:  7:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1142
;       TYPE:  amino acids
;       STRANDEDNESS:  single-stranded
;       TOPOLOGY:  linear
US-08-845-528C-7

  Query Match             6.1%;  Score 162.5;  DB 3;  Length 1142;
  Best Local Similarity   22.9%;  Pred. No. 4.4e-05;
  Matches  131;  Conservative   79;  Mismatches  223;  Indels  139;  Gaps   30;

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Qy         77 PAKSSTSFDEFLNYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLDLGSLL---------- 127
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Qy        128 ----PEGCSNSKPVNAAGEYFNSKVPITET KSTFFELIQGKELKEVIGKENFSYLESQ 181
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Qy        182 -PHDSCPVEMQAQKVMHVSSAELNYS----LPYDSKHQIRNASNVKHHDSSALGVYSYIP 236
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Qy        237 LVENPYFSSW------PPSGTSSKMSL----DLPEKQDGT---VFPSSLLPTSSTS 279
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Qy        280 LFSYY-----NSHDSLSLN----SPTNISSLLNQESAVLATAPRIDDEIPPP-----LP 324
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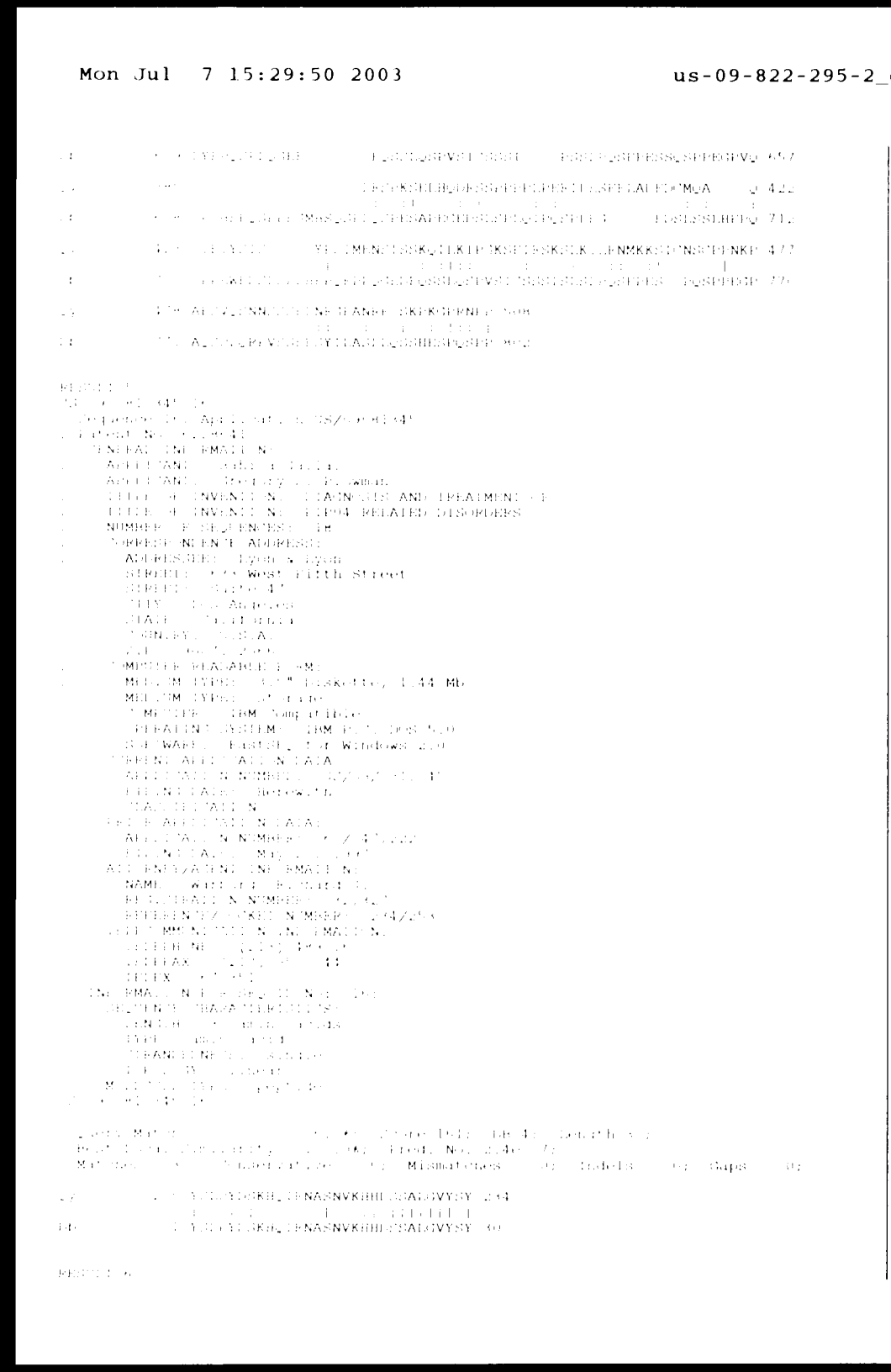

US-09-061-709-2
; Sequence 2, Application US/09061709B
; Patent No. 6207364
; GENERAL INFORMATION:
; APPLICANT: Chen, Yao-Tseng
; APPLICANT: Gure, Ali
; APPLICANT: Isaq, Solam
; APPLICANT: Stockert, Elisabeth
; APPLICANT: Jager, Elke
; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd J.
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
; TITLE OF INVENTION: Antigen, The Antigens For So, And Uses Thereof
; FILE REFERENCE: LUD 5548
; CURRENT APPLICATION NUMBER: US/09/061,709B
; CURRENT FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-061-709-2

Query Match 5.9%; Score 157.5; DB 4; Length 1142;
Best Local Similarity 22.9%; Pred. No. 0.00012;
Matches 131, Conservative 76, Mismatches 226, Indels 139; Gaps 30;

RESULT 7
US-09-134-001C-4463
; Sequence 4463, Application US/09134001C
; Patent No. 6380370

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; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE: 1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4463
;   LENGTH: 2137
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4463

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  Best Local Similarity   20.8%;  Pred. No. 0.0008;
  Matches  104;  Conservative   73;  Mismatches  273;  Indels   49;  Gaps   11;

Qy          8 SGTESQAFHTIPVKNPT LAPSYSPNLPKSTTEAAKMMNQTFTKMFTKFSSSFPPFTSET 67
              ||: |  :   : :      :|| |  :  :| : :|     : :        : :|:|     |||
Db       1556 SGSISIS---VSDSTSTSISDSASASTSESDSDSASTSSSESVSTSVSDSTSAS--TSES 1610

Qy         68 SAKFFIVLHPAKSSTSPDFLFLNYSFDKNADTTMKWQTKAFPIVCEPLQKHQSIDLCSIL 127
              : :     |        :||    |   :  |   :   |:|        |      |      |   |
Db       1611 ASISISVSDSNASTS---LSESTSTSLSDSTSMSTSDSASTSTSESDSDSASTSLSDST 1667

Qy        128 PPGCSNSKFVNAACFY-NSKVPIIPIESIPFELIQQPEIKEVDS---------KFNFSYI 178
                    | :                :  :  : : ||   |   | |    ||                 : |
Db       1668 STSVSESTST-------STSTSVSASNSTSTSLSDSRSTSLSDSISTSTSESGSTSTSES 1720

Qy        179 ESQPHDSCPVEMQAQKVMHVSSAELNISLPYQSKHQIENAENVKHLQSLALCVYSYILV 238
              :|     :    |   :   :    :|     :  |                | ::       ||: :    |
Db       1721 DSDSASTSTSESTSTSTSDSTSTSDSASTSMSVSDSNPASTSLSDSTSTSVSDSTSAS 1780

Qy        239 PNPTTLSWPTQDTTTPKTLPLPEKQTDTVFPKTLLPTS    CTSLPTYTNSHDSLSLNSP 295
                :    ::           |:   |   |   |       :|   |:    ||     |||          :: :|  ||:
Db       1781 TSESASTSTPESESTSASTSLSDTTSTSVSDSTSTSTSDSASTSTSTSLSDSNSESTSLSES 1840

Qy        296 TNTT   STTINQESAVLATAPRIPDPIPPPLPVRTPESPIVVEEACEESQNVPKSLSSAV 352
              |: |                  :|    :|:   :  |                    :            :'          :|    |   |::
Db       1841 TSTSVSDSTSASTSASASTSTSVSD                     SNSASTSLSGSTSTSVSDSTSTST 1889

Qy        353 KVKTTTTLEWQTTSHPKKPTSSVTLRPCKSVKLRSPKSELHQDESCPPPQLPERTLESFF 412
                        :||            |   |   |  |   :        |         |  :           |         |
Db       1890 SASASTS ----TSESTSDSASTSLSGSTSTSTSDSTSTSTSDSAS--TSTSESASTSTS 1942

Qy        413 LAEEPMLAQSTTTYSTQYTDTMENGTGSKQTLATPGKSTTASKSLKTLSNMKKGTCNSC 472
              :::               :  |||   |:       |||      :    |      :|   :  |:|   :     :       || :|
Db       1943 VSTSTSTSTSVSESSSTSVSDSTSTSTSESASTST-SESESTSESTSVSESSSTSTSDSS 2001

Qy        473 PPNKPAEEVQSNNGSGCLN 491
                    :      :  ::    |   |   :|
Db       2002 STSTSMSTSETPTSQSTIN 2020


RESULT 8
US-09-081-345-17
; Sequence 17, Application US/09081345
; Patent No. 6228641
;  GENERAL INFORMATION:
;     APPLICANT:  Bahija Jallal
;     APPLICANT:  Gregory D. Plowman
;     TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;     TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;     NUMBER OF SEQUENCES:  18
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Lyon & Lyon
;       STREET:  633 West Fifth Street
;       STREET:  Suite 4700
;       CITY:  Los Angeles
;       STATE:  California
;       COUNTRY:  U.S.A.
;       ZIP:  90071-2066
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;       MEDIUM TYPE:  storage
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  IBM P.C. DOS 5.0
;       SOFTWARE:  FastSEQ for Windows 2.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/081,345
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  60/047,222
;       FILING DATE:  May 20, 1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Warburg, Richard J.
;       REGISTRATION NUMBER:  32,327
;       REFERENCE/DOCKET NUMBER:  234/289
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (213) 489-1600
;       TELEFAX:  (213) 955-0440
;       TELEX:  67-3510
;   INFORMATION FOR SEQ ID NO:  17:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  30 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-09-081-345-17

  Query Match             5.6%;  Score 149;  DB 4;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 2.5e-06;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         23 HTLQAPSYSPNLPKSTTKAAKMMNQQRTK 51
              |||||||||||||||||||||||||||||
Db          1 HTLQAPSYSPNLPKSTTKAAKMMNQQRTK 29


RESULT 9
US-09-081-345-15
; Sequence 15, Application US/09081345
; Patent No. 6228641
;  GENERAL INFORMATION:
;     APPLICANT:  Bahija Jallal
;     APPLICANT:  Gregory D. Plowman
;     TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;     TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;     NUMBER OF SEQUENCES:  18
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Lyon & Lyon
;       STREET:  633 West Fifth Street
;       STREET:  Suite 4700
;       CITY:  Los Angeles
;       STATE:  California
;       COUNTRY:  U.S.A.
;       ZIP:  90071-2066
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;       MEDIUM TYPE:  storage
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  IBM P.C. DOS 5.0
;       SOFTWARE:  FastSEQ for Windows 2.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/081,345
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA.
;       APPLICATION NUMBER:  60/047,222
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;     [illegible] DATE: [illegible]
;   ATTORNEY/AGENT INFORMATION:
;     NAME: [illegible]
;     REGISTRATION NUMBER: [illegible]
;     REFERENCE/DOCKET NUMBER: [illegible]
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: [illegible]
;     TELEFAX: [illegible]
;     TELEX: [illegible]
; INFORMATION FOR SEQ ID NO: 15:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: [illegible] amino acids
;     TYPE: amino acid
;     STRANDEDNESS: [illegible]
;     TOPOLOGY: linear
;   MOLECULE TYPE: peptide
[illegible]

  Query Match             [illegible]%;  Score 148.5;  DB 4;  Length 31;
  Best Local Similarity   [illegible]%;  Pred. No. [illegible];
  Matches  [illegible];  Conservative  [illegible];  Mismatches  [illegible];  Indels  1;  Gaps  1;

Qy  [illegible] [illegible]SSKM[illegible]EK[illegible]IVEPSSLLP 274

Db  [illegible] [illegible]SKM[illegible]EK[illegible]IVEPSSLLP 31


RESULT [illegible]
[illegible]
; Sequence [illegible], Application [illegible]
; Patent No. [illegible]
;  GENERAL INFORMATION:
;    APPLICANT: KEESEE, SUSAN
;    APPLICANT: OBAR, ROBERT
;    APPLICANT: WU, YING JYE
;    TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
;    TITLE OF INVENTION: DETECTION OF CERVICAL CANCER
;    NUMBER OF SEQUENCES: [illegible]
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Testa, Hurwitz & Thibeault
;      STREET: [illegible]
;      CITY: [illegible]
;      STATE: MA
;      COUNTRY: USA
;      ZIP: [illegible]
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.[illegible]
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: [illegible]
;      FILING DATE:
;      CLASSIFICATION: [illegible]
;    ATTORNEY/AGENT INFORMATION:
;      NAME: [illegible]
;      REGISTRATION NUMBER: [illegible]
;      REFERENCE/DOCKET NUMBER: [illegible]
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: [illegible]
;      TELEFAX: [illegible]
;  INFORMATION FOR SEQ ID NO: [illegible]:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: [illegible] amino acids
;      TYPE: amino acid
;      STRANDEDNESS: [illegible]
;      TOPOLOGY: linear
;    MOLECULE TYPE: peptide
[illegible]

  Query Match             4.8%;  Score 128.5;  DB 2;  Length 3224;
  Best Local Similarity   [illegible]%;  Pred. No. [illegible];
  Matches  [illegible];  Conservative  [illegible];  Mismatches  [illegible];  Indels  [illegible];  Gaps  [illegible];

Qy          2 VIRDKBSG      TESQAKHPIPKNHIIQAD          SYSPNLEK 36

Db       1221 ILRHETCKIPLLMKKESVLK   ANEIIEPMKITNA  VWHA  YALEPK 1277

Qy         37 STIKAAKMMNQ KI   KMEIKLLL          LKLIE VAKK  ASSSISE 84

Db       1278 PEQLAIRPKIPKKAA                                   KS 1337

Qy         85 DFLELNYSFD  ----       -------KNADTTMKWQTKAPPIVGEPLQKHQSLDLGSLLF 128

Db       1338 DAGNLNPEPQVAKKP   WWP          KNASTAKKCVS---------------------- 1374

Qy        129 ESCSNSKEVN  AAGEYIENSEVI IIKIESIPE - ELIQQKEIKEEVDSKE  -- NESYI 178

Db       1375 --CQNLNPSNKELVG------PPLAEIVEIP     NV    ALVI  KKPQHW   SICLV 1426

Qy        179 ESQPHDSCEVEMQAQKVMHVSCALLNY            DLPYD   KHQIENACNVK  HHDGS 227

Db       1427 RNEPIV                                            SIEP   VEIKPPQW  S 1486

Qy        228 ALDV                                                   NS 286

Db       1487 AC---- --LVQN----  ---EGSSIKCAACQNPKKQS    LPATSI IPAS   EKEGIS 1526

Qy        287 E                  PTNISSLL  NQESAVLATAPRIDDEIP PLPVKIPESPIV 333

Db       1527 ETSKTLESCFEDMFAKEEQQW   S  LVKNEANATKCVACQNPDKPSPSTSVPAPASF   1584

Qy        334 VEEAGEESPNVPKSLSSAVKVK    S--  ----   EWQ         SVII      KF 379

Db       1585 -           ----       KP  SEISKAPKS    MF KKEGQW   SV  LVKNEASA 1623

Qy        380 SKSVKLESE        KSELHQ      PLEPPIILESEPLADE-- DCM       QAQSI 424

Db       1624 IK                                          GQW  SV LVKNEASAI 1683

Qy        427 EIY                                     ELEEK   ELKEIEN   M   466

Db       1684 KCIA                                                   EASAIK 1743

Qy        467 E                     EN       PGEANKESKPKG 503

Db       1744 CIACQCPSKQNQITAIS  ASSEISKAPKS    MPIE KG 1783


RESULT 11
US-09-989-045-34
; Sequence 34, Application US/09989045
; Patent No. 6027905
;  GENERAL INFORMATION:
;    APPLICANT: KEESEE, SUSAN
;    APPLICANT: OBAR, ROBERT
;    APPLICANT: WU, YING JYE
;    TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
;    TITLE OF INVENTION: DETECTION OF CERVICAL CANCER
;    NUMBER OF SEQUENCES: 46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Testa, Hurwitz & Thibeault
;      STREET: 125 High St.
;      CITY: Boston
;      STATE: MA
;      COUNTRY: USA
;      ZIP: 02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/989,045
;      FILING DATE:
;      CLASSIFICATION:
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;     ATTORNEY/AGENT INFORMATION:
;        NAME: GREENHALGH, DUNCAN A
;        REGISTRATION NUMBER: 38,678
;        REFERENCE/DOCKET NUMBER: MIT 023 (8390/27)
;     TELECOMMUNICATION INFORMATION:
;        TELEPHONE: (617) 248-7000
;        TELEFAX: (617) 248-7100
;  INFORMATION FOR SEQ ID NO: 34:
;     SEQUENCE CHARACTERISTICS:
;        LENGTH: 3224 amino acids
;        TYPE: amino acid
;        STRANDEDNESS:
;        TOPOLOGY: linear
;     MOLECULE TYPE: peptide
US-08-864-045-34

  Query Match             4.8%;  Score 128.5;  DB 3;  Length 3224;
  Best Local Similarity   20.4%;  Pred. No. 0.16;
  Matches  1[illegible];  Conservative   67;  Mismatches  226;  Indels  217;  Gaps   32;

Qy          2 VIRPKEHD-------TSSQAKHCIPEKNHTLQAD              SYSPNLPK 36
Db       1221 ILRHFT[illegible]ANHYTSF[illegible]MFITENAGSE[illegible]VWHALDYADFLPK 1277

Qy         37 STIKAAKMMNQQRI---KMEIKESSSF---------DFRTSEISAKEELVLHPAKSSTSF 84
Db       1278 PEQLAIRFKTFEEAALFKCFFEFAQSILKAPGTNVAMASNQAVFIVKEPTSHDNKDICKS 1337

Qy         85 DFLEILNYSLD-----------------KNADFIMKWQTKAFPIVCEPLQKHQSLDLGSLLF 128
Db       1338 DAGNLNFEFQVAKKEGSWWHCNSCSLKNASTAKKCVS---------------------- 1374

Qy        129 EKCSNQFFVN  ANCFYPNSFVPITETKSTPF   ELIQQFETKEVDSKP-     NFSYL 178
Db       1375  [illegible]LNGNLPNKELVI    ITLAFTVFTPETSPENVQIPEALVTPEKEPCHWPCSICLV 1426

Qy        179 ESQPHDSCFVEMQAQKVMHVSSAELNY           SLPYLSKHQIKNASNVK--HHDSS 227
Db       1427 KNEPIVSE[illegible]IACNTKSANKSGQSE VLQASEKL[illegible]LLPKPINS[illegible]SVFSTEEGQWD[illegible] 1486

Qy        228 ALGVYSYIPLVENPYPSSWPPSCTSSK-MSIDLPEKQDGTVFPSSLLPTSSTSLFSYYNS 286
Db       1487 A          LVQN        LGSSTKCAACQNFKKQS    ILPATL[illegible]ITPAS  FKFCTS 1526

Qy        287 HDSLSLNS- ----------PTNISSLL--NQESAVLATAPRIDDEIPPPLPVRTPESFIV 333
Db       1527 ETSK[illegible]SGEELMEAKKEGQWL[illegible]SSCLVENFANATECVACQNPDKPSPSTSVPAPASF-- 1584

Qy        334 VEPACEECPNVEKSLSSAVKVKIGTS           -LSWGCTSEPKKFDDSVIL-----RP 379
Db       1585 ------------------ ---KFGTSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASA 1623

Qy        380 SKSVKLKSP------KSELHQDRSSPPPPLPERTLESFFLADE---DCM------QAQSI 424
Db       1624 IKCIACQNPGKQNQTISAVSTPASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASAT 1683

Qy        425 ETYSTSYPDTMENSTS------SKQTLKTPGKS----FTRSK-----SLKILRN---MKK 466
Db       1684 [illegible]ASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASATK 1743

Qy        467 STGNSTPNKPALSVQSNNSSSELN----ECEANRESKPKG 503
Db       1744 [illegible]AKSGFEGMFIK-KG 1783


RESULT 12
US-07-741-940-2
; Sequence 2, Application US/07741940
; Patent No. 5352775
;  GENERAL INFORMATION:
;     APPLICANT: ALBERTSEN, HANS
;     APPLICANT: ANAND, RAKESH
;     APPLICANT: CARLSON, MARY
;     APPLICANT: GRODEN, JOANNA
;     APPLICANT: HEDGE, PHILIP J.
;     APPLICANT: JOSLYN, GEOFF
;     APPLICANT: KINZLER, KENNETH
;     APPLICANT: MARKHAM, ALEXANDER F.
;     APPLICANT: NAKAMURA, YUSUKE
;     APPLICANT: THLIVERIS, ANDREW
;     TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
;     TITLE OF INVENTION: GENE IN COLORECTAL CANCER IN HUMANS
;     NUMBER OF SEQUENCES: 94
;     CORRESPONDENCE ADDRESS:
;        ADDRESSEE: Banner, Birch, McKie & Beckett
;        STREET: 1001 G Street, NW
;        CITY: Washington
;        STATE: D.C.
;        COUNTRY: USA
;        ZIP: 20001-4598
;     COMPUTER READABLE FORM:
;        MEDIUM TYPE: Floppy disk
;        COMPUTER: IBM PC compatible
;        OPERATING SYSTEM: PC-DOS/MS-DOS
;        SOFTWARE: PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;        APPLICATION NUMBER: US/07/741,940
;        FILING DATE: 19920109
;        CLASSIFICATION: 435
;     ATTORNEY/AGENT INFORMATION:
;        NAME: Kagan, Sarah A.
;        REGISTRATION NUMBER: 32,141
;        REFERENCE/DOCKET NUMBER: 1107.035574
;     TELECOMMUNICATION INFORMATION:
;        TELEPHONE: 202-508-9100
;        TELEFAX: 202-508-9299
;  INFORMATION FOR SEQ ID NO: 2:
;     SEQUENCE CHARACTERISTICS:
;        LENGTH: 2843 amino acids
;        TYPE: AMINO ACID
;        TOPOLOGY: linear
;     MOLECULE TYPE: protein
US-07-741-940-2

  Query Match             4.8%;  Score 127;  DB 1;  Length 2843;
  Best Local Similarity   19.2%;  Pred. No. [illegible];
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

Qy          5 DKHSSTESQAKHCIPEKNHTLQADCSTENLPKSTIKAAKMMNQQRT       KMEIKESS 58
Db        903 DRSSGSTTEL HCVTDERNALKKSS AAHTHSNTYNPTKSENSNRTCSMPYAKLEYKRSS 960

Qy         59 ---------------       -----------------SFDFRTSEISAKEELVLHPAKSSTS 83
Db        961 NDSLNSVSSNDGYGKRGQMKPSIESYSEDDESKFCSYGQYPADLAHKIHSANHMDDNDGE 1020

Qy         84 FDFLELNYSFDKNADTTM------------KW----------------------QIKAFPIV 111
Db       1021 LD-TPINYSL-KYSDEQLNSCRQSPSQNERWARPKHIIEDEIKQSEQRQSRNQSTTYPVY 1078

Qy        112 CEPLQKHQSLDLGSLLF------EGC---------SNSKPVNAAGRYENSKVPITETKSTP 157
Db       1079 TE------STDDKHLKFQPHFGQQECVSPYRSRGANGSETNRVG      SNHGINQNVS 1126

Qy        158 FELIQQRETKEVDSKENFS--YIESQPHDSCPVEMQACKVMHVSSAELNYSLPYLSKHQI 215
Db       1127 -QSLCQEDDYEDDKPTNYSERYSEEEQHEE                  EERPTNYSIKYNEEK 1170

Qy        216 KNASNVKHHDSS    ALGVYSYIPLVENPYPSSWPPSCTSSKMSIDLPEKQDGTVFPSS 271
Db       1171         RHVDQPIDYSLKYATDIPSSQKQSFSFSKSSSGQSSKTE HMSSSSENTSTPSS 1223

Qy        272 -------LLPTSSTSLPSYYNSHDSLSLNSPTNISSLLNQES                 AV 308
Db       1224 NAKRQNQLHPSSA          [illegible]QKAATCKV[illegible]NQ[illegible]VP[illegible]PSRQSS 1276
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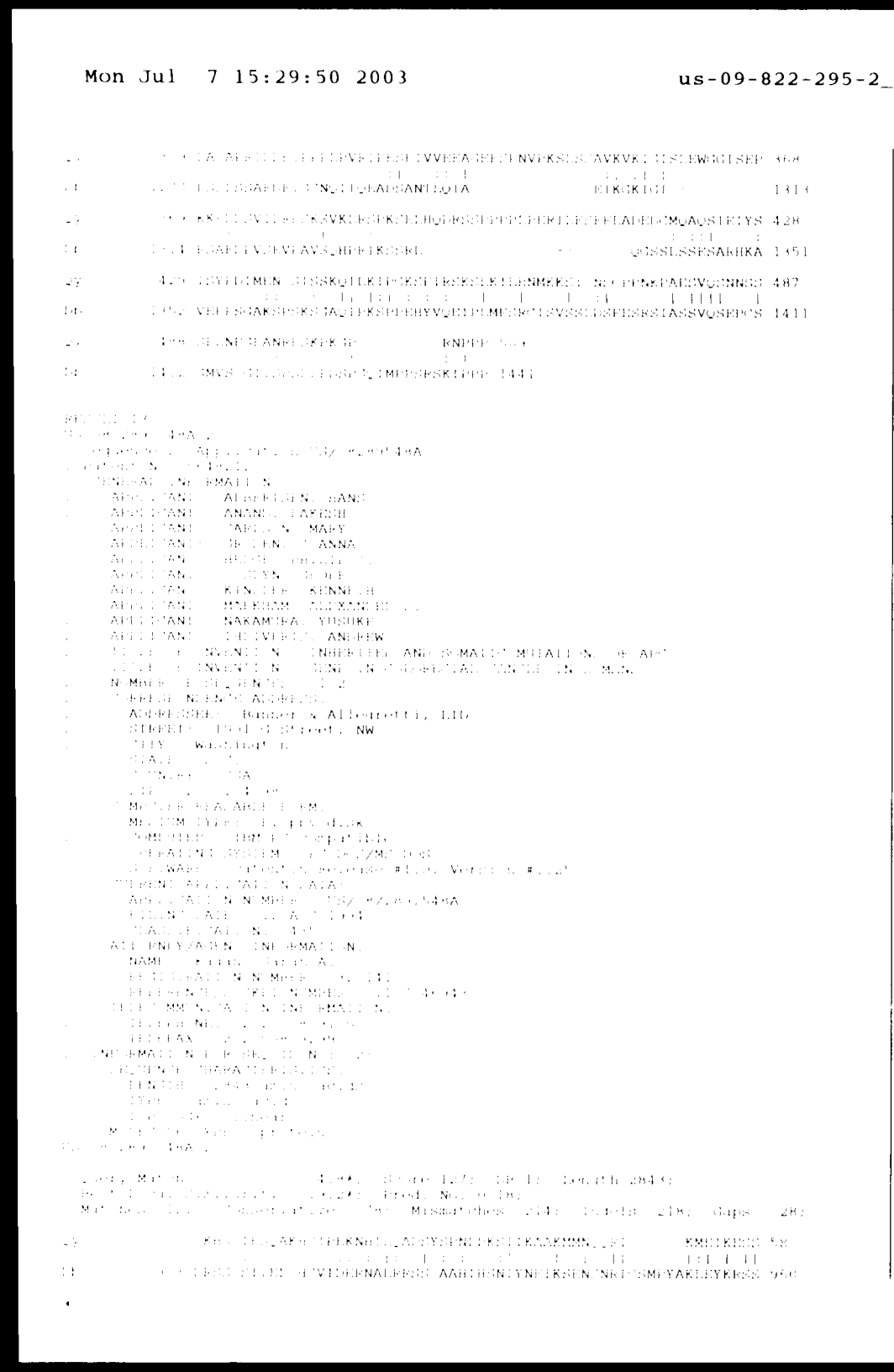

RESULT 14
US/08/452,654/2
; Sequence 2, Application US/08452654
; Patent No. 5691454
; GENERAL INFORMATION:
; APPLICANT: ALBERTSEN, HANS
; APPLICANT: ANAN, JAKESH
; APPLICANT: CARLSON, MARY
; APPLICANT: GRODEN, JOANNA
; APPLICANT: HEDGE, PHILIP J.
; APPLICANT: JOSLYN, GEOFF
; APPLICANT: KINZLER, KENNETH
; APPLICANT: MARKHAM, ALEXANDER F.
; APPLICANT: NAKAMURA, YUSUKE
; APPLICANT: VOGELSTEIN, BERT
; TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
; TITLE OF INVENTION: GENE IN COLORECTAL CANCER IN HUMANS
; NUMBER OF SEQUENCES: 94
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner, Birch, McKie & Beckett
; STREET: 1001 G Street, NW
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20001-4598
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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;      APPLICATION NUMBER: US/08/452,654
;      FILING DATE: 25-MAY-1995
;      CLASSIFICATION: 536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US 07/741,940
;      FILING DATE: 08-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME: Kagan, Sarah A.
;      REGISTRATION NUMBER: 32,141
;      REFERENCE/DOCKET NUMBER: 1107.035574
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 202-508-9100
;      TELEFAX: 202-508-9299
;  INFORMATION FOR SEQ ID NO: 2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 2843 amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-452-654-2

  Query Match            4.8%;  Score 127;  DB 1;  Length 2843;
  Best Local Similarity  19.2%;  Pred. No. 0.18;
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

Qy          5 DKHSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMNQQRT------KMEIKESS 58
Db        903 DRSSGSTTEL HCVTDERNALRSS AAHTHSNTYNFTKSENSNRTCSMPYAKLEYKRSS 960

Qy         59 ----------------------------------SFDFRTSEISAKEELVLHPAKSSTS 83
Db        961 NDSLNSVSSNDGYGKRGQMKPSIESYSEDDESKFCSYGQYPADLAHKIHSANHMDDNDGE 1020

Qy         84 FDFLELNYSFDKNADTTM-----------KW-------------------QTKAFFIV 111
Db       1021 LD TPINYSLKYSDEQLNSGRQSPSQNERWARPKHIIEDEIKQSEQRQSPNQSTTYPVY 1078

Qy        112 GEPLQKHQSLDLGSLLP------EGC--------SNSKPVNAAGRYENSKVPITRTKSTP 157
Db       1079 TE      STDDKHLKFQPHFGQQECVSPYRSRGANGSETNRVG----SNHGINQNVS-- 1126

Qy        158 FELLIQQRETKEVDSKENFS--YLESQPHDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQI 215
Db       1127 -QSLCQEDDYEDDKPTNYSERYSEEEQHEE------------EERPTNYSIKYNEEK-- 1170

Qy        216 RNASNVKHHDSS---ALGVYSYIPLVENPYFS-SWPPSGTSSKMSLDLPEKQDGTVFPSS 271
Db       1171 ------RHVDQPIDYSLKYATDIPSSQKQSFSFSKSSSGQSSKTE-HMSSSSENTSTPSS 1223

Qy        272 -------LLPTSSTSLFSYYNSHDSLSLNSPTNISSLLNQES----------------AV 308
Db       1224 NAKRQNQLHPSSA-------QSRSGQPQKAATCKVSSINQETIQTYCVEDTPICFSRCSS 1276

Qy        309 LATAPRIDDEIPPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEWGGTSEP 368
Db       1277 LSSLSSAEDEIGCNQTTQEADSANTLQIA              -EIKGKIGT---------- 1313

Qy        369 KKFDDSVILEPSKSVKLESPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIETYS 428
Db       1314 RSAEDPVSEVPAVSQHPRTKSSRL----------------------QGSSLSSESARHKA 1351

Qy        429 TSYPDTMEN STSSKQTLKTPGKSFTRSKSLKILRNMKKSICNSCPPNKPAESVQSNNSS 487
Db       1352 VEFSSGAKSPSKSGAQTPKSPPEHYVQETPLMFSRCTSVSSLDSFESRSIASSVQSEPCS 1411

Qy        488 SFLNFGFANRFSKIKGP----------RNPPP 509
Db       1412 GMVS-GIISPSDLPDSPGQTMPPSRSKTPPP 1441

RESULT 15
US-08-370-235A-2
; Sequence 2, Application US/08370235A
; Patent No. 5910418
;  GENERAL INFORMATION:
;    APPLICANT: VOGELSTEIN, BERT
;    APPLICANT: KINZLER, KENNETH W.
;    APPLICANT: HILL, DAVID E.
;    APPLICANT: JOHNSON, KAREN A.
;    TITLE OF INVENTION: ANTIBODIES AND ASSAYS FOR DETERMINING
;    TITLE OF INVENTION: MUTATIONS IN THE APC GENE
;    NUMBER OF SEQUENCES: 4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: BANNER & WITCOFF, LTD.
;      STREET: 1001 G STREET, N.W.
;      CITY: WASHINGTON
;      STATE: DC
;      COUNTRY: US
;      ZIP: 20001
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/370,235A
;      FILING DATE: 01-JAN-1995
;      CLASSIFICATION: 435
;    ATTORNEY/AGENT INFORMATION:
;      NAME: KAGAN, SARAH A.
;      REGISTRATION NUMBER: 32,141
;      REFERENCE/DOCKET NUMBER: 01107.48688
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 202 508 9100
;      TELEFAX: 202 508 9299
;  INFORMATION FOR SEQ ID NO: 2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 2843 amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-370-235A-2

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  Best Local Similarity  19.2%;  Pred. No. 0.18;
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

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Qy         59 ----------------------------------SFDFRTSEISAKEELVLHPAKSSTS 83
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Qy         84 FDFLELNYSFDKNADTTM-----------KW-------------------QTKAFFIV 111
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Qy        158 FELLIQQRETKEVDSKENFS--YLESQPHDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQI 215
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Qy        216 RNASNVKHHDSS---ALGVYSYIPLVENPYFS-SWPPSGTSSKMSLDLPEKQDGTVFPSS 271
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Qy        272 -------LLPTSSTSLFSYYNSHDSLSLNSPTNISSLLNQES----------------AV 308
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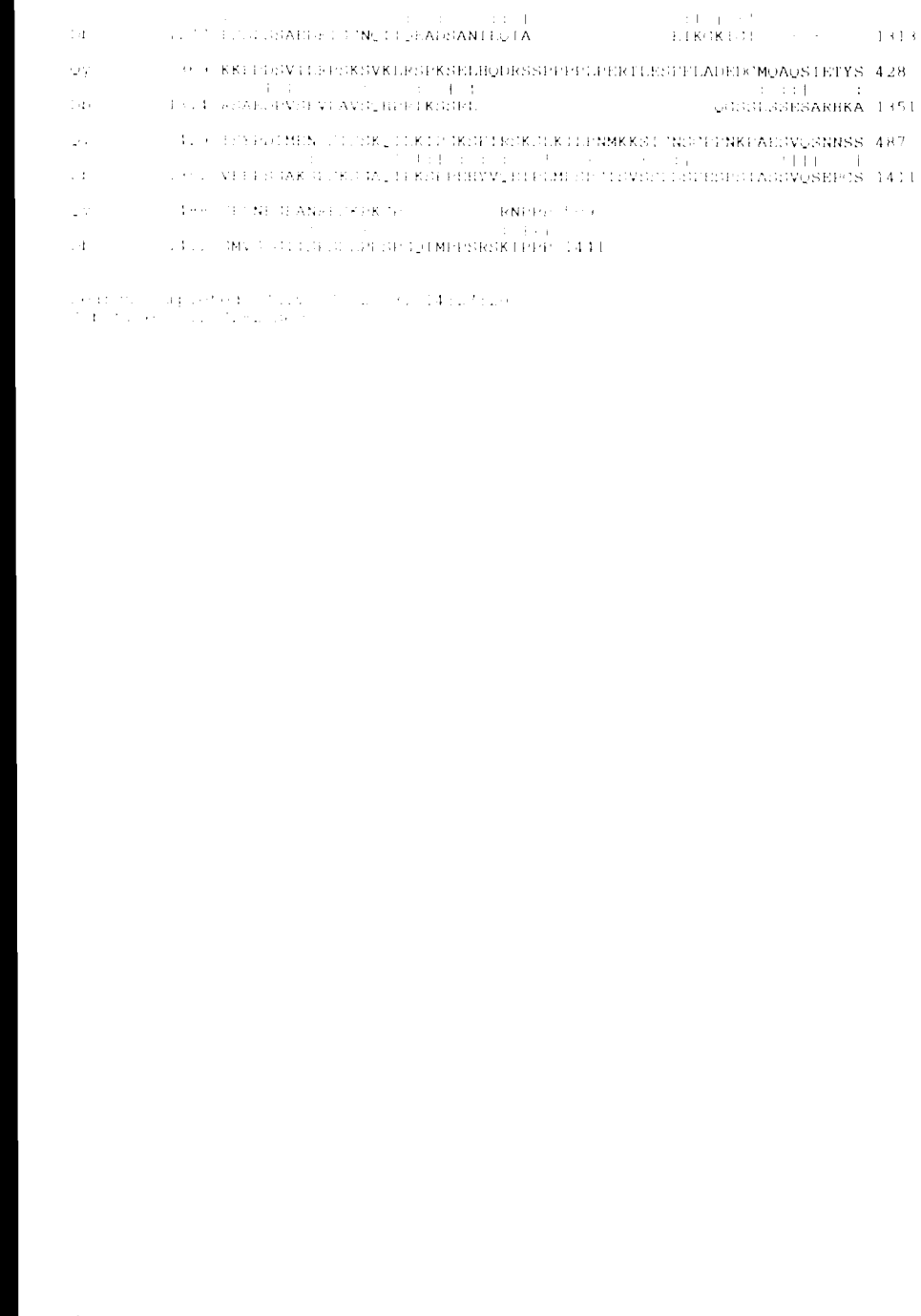

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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440863 seqs, 114992915 residues

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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14: [illegible]/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2710.5	67.9	802	10	US-09-822-295-18	Sequence 18, Appl
3	1717	43.0	331	9	US-10-102-80[illegible]-606	Sequence 606, App
4	929.5	23.3	312	10	US-09-788-626-21	Sequence 21, Appl
5	716	17.9	448	9	US-10-087-993-32	Sequence 32, Appl
6	710	17.8	453	9	US-10-243-687-7	Sequence 7, Appli
7	696.5	17.5	458	9	US-10-087-993-36	Sequence 36, Appl
8	525.5	13.2	264	9	US-10-245-539-6	Sequence 6, Appli
9	507.5	12.7	853	9	US-10-072-036-119	Sequence 119, App
10	500	12.5	1463	9	US-10-176-847-22	Sequence 22, Appl
11	500	12.5	1463	9	US-10-205-823-343	Sequence 343, App
12	491	12.3	311	10	US-09-788-626-23	Sequence 23, Appl
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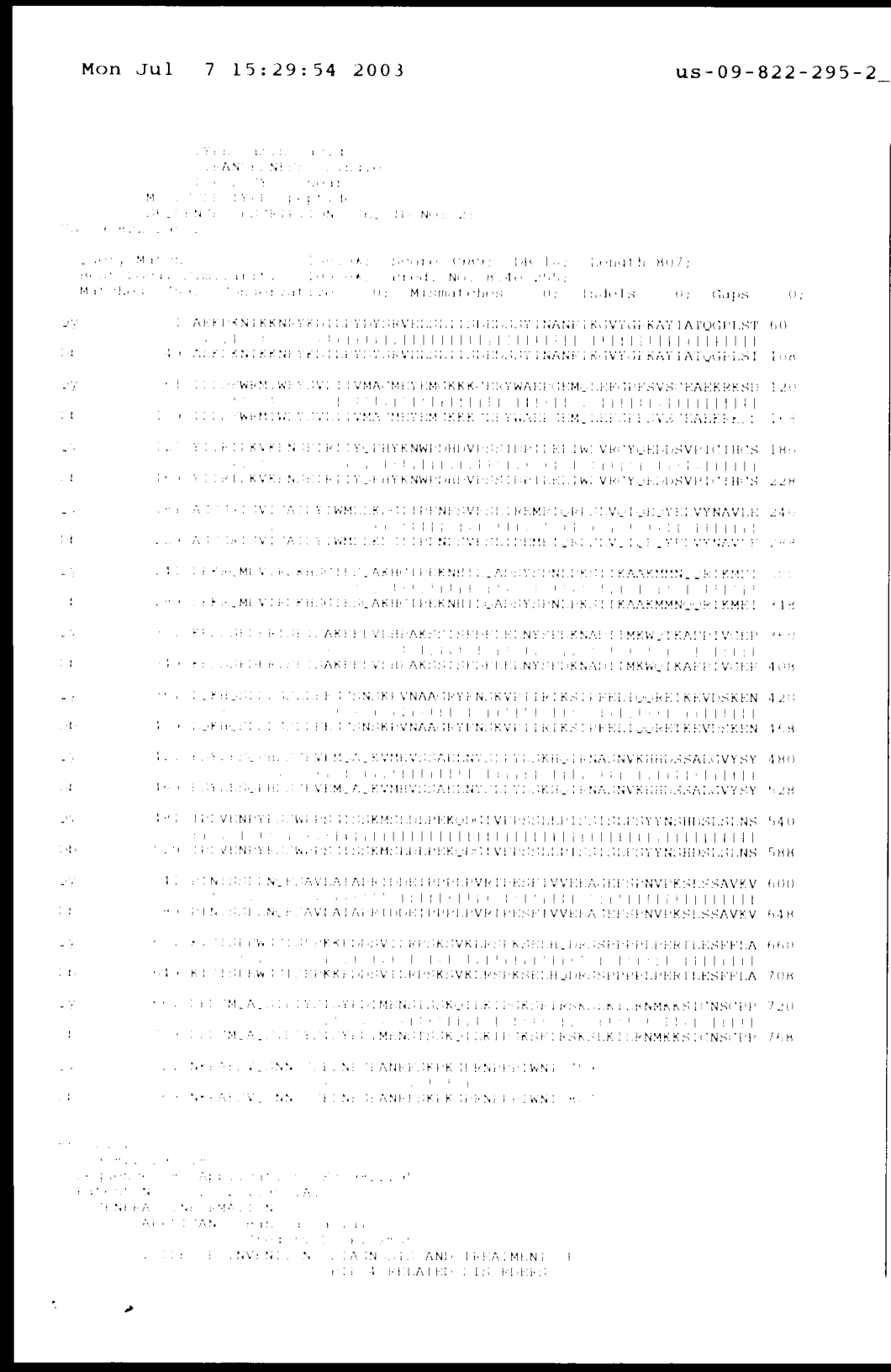
14	483.5	12.1	843	9	US-10-072-036-117	Sequence 117, App
15	477	12.0	319	10	US-09-788-626-6	Sequence 6, Appli
16	477	12.0	2308	12	US-10-000-954-2	Sequence 2, Appli
17	477	12.0	2314	9	US-09-983-000A-6	GENERAL INFORMATI
18	474.5	11.9	316	10	US-09-788-626-5	Sequence 5, Appli
19	474.5	11.9	316	10	US-09-788-626-26	Sequence 26, Appl
20	474	11.9	317	10	US-09-788-626-4	Sequence 4, Appli
21	473	11.9	305	10	US-09-788-626-9	Sequence 9, Appli
22	470.5	11.8	442	10	US-09-925-300-950	Sequence 950, App
23	466.5	11.7	1948	9	US-09-808-602-55	Sequence 55, Appl
24	466.5	11.7	1948	9	US-09-800-198-45	Sequence 45, Appl
25	465.5	11.7	294	10	US-09-788-626-27	Sequence 27, Appl
26	465.5	11.7	2353	9	US-09-983-000A-4	Sequence 4, Appli
27	463.5	11.6	593	10	US-09-920-021A-3	Sequence 3, Appli
28	461.5	11.6	597	9	US-10-038-010-22	Sequence 22, Appl
29	461	11.6	248	9	US-10-293-231-10	Sequence 10, Appl
30	461	11.6	248	10	US-09-848-294-10	Sequence 10, Appl
31	460.5	11.5	1502	9	US-09-808-602-54	Sequence 54, Appl
32	460.5	11.5	1502	9	US-09-800-198-44	Sequence 44, Appl
33	456	11.4	309	10	US-09-788-626-12	Sequence 12, Appl
34	456	11.4	325	10	US-09-788-626-13	Sequence 13, Appl
35	452	11.3	281	10	US-09-788-626-28	Sequence 28, Appl
36	450	11.3	291	10	US-09-788-626-22	Sequence 22, Appl
37	445	11.2	322	10	US-09-788-626-14	Sequence 14, Appl
38	445	11.2	1093	9	US-10-245-539-4	Sequence 4, Appli
39	445	11.2	1118	9	US-10-245-539-2	Sequence 2, Appli
40	445	11.2	1118	9	US-10-245-539-8	Sequence 8, Appli
41	443.5	11.1	2301	9	US-09-822-871-4	Sequence 4, Appli
42	443	11.1	313	10	US-09-788-626-17	Sequence 17, Appl
43	441	11.1	313	10	US-09-788-626-7	Sequence 7, Appli
44	436	10.9	913	9	US-10-293-231-2	Sequence 2, Appli
45	436	10.9	913	10	US-09-848-294-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Rahija Jalial
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; [illegible] RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids



; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/081,445
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 241,253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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US-09-822-295-18

Query Match 67.9%; Score 2710.5; DB 10; Length 802;
Best Local Similarity 70.0%; Pred. No. 1.7e-170;
Matches 544; Conservative 73; Mismatches 143; Indels 13; Gaps 6;

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RESULT 3
US-10-102-806-606
; Sequence 606, Application US/10102806
; Publication No. US20030054421A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103F1C1
; CURRENT APPLICATION NUMBER: US/10/102,806
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/925,298
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05881
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 606
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (91)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (235)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-102-806-606

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  Query Match             43.6%;  Score 1717;  DB 9;  Length 331;
  Best Local Similarity   99.4%;  Pred. No. 1.5e-105;
  Matches  329;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

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Qy        489 FSSWPPSGTSSKMSLDLPEKQDGTVFPSSLLPTSSTSLFSYYNSHDSLSLNSPTNISSLL 548

Db         61 FSSWPPSGTSSKMSLDLPEKQDGTVFPSSLLPTSSTSLFSYYNSHDSLSLNSPTNISSLL 120

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RESULT 4
US-09-788-626-21
; Sequence 21, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-21

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  Best Local Similarity   54.7%;  Pred. No. 1.2e-53;
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Qy         62 LLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDY 121

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Qy        122 IIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSA 181

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Qy        182 GCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLEL 241

Db        186 GCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTKEQYELVHRAIAQL 245

Qy        242 FKRQMDVIRDKHSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAK         MMN 292

Db        246 FEKQLQ----------------------------LYAIDYTWN     LKAGKIPEEFNVFNLIQ 278

Qy        293 QQRTKMEIKESSSFDFRTSEISAKEELVL 321

Db        279 EMRTQ------------RHSAVQTKEQYEL 296
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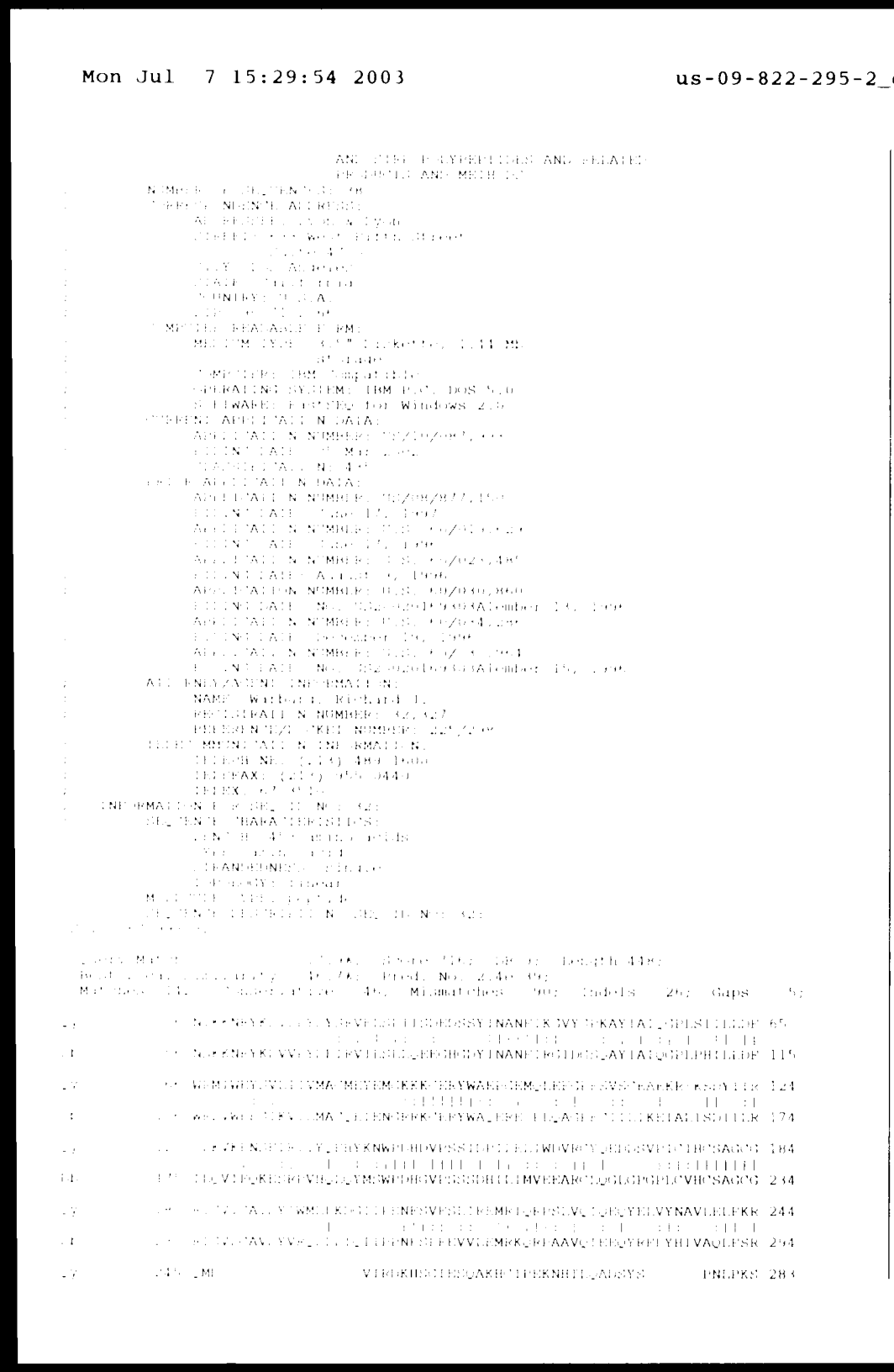
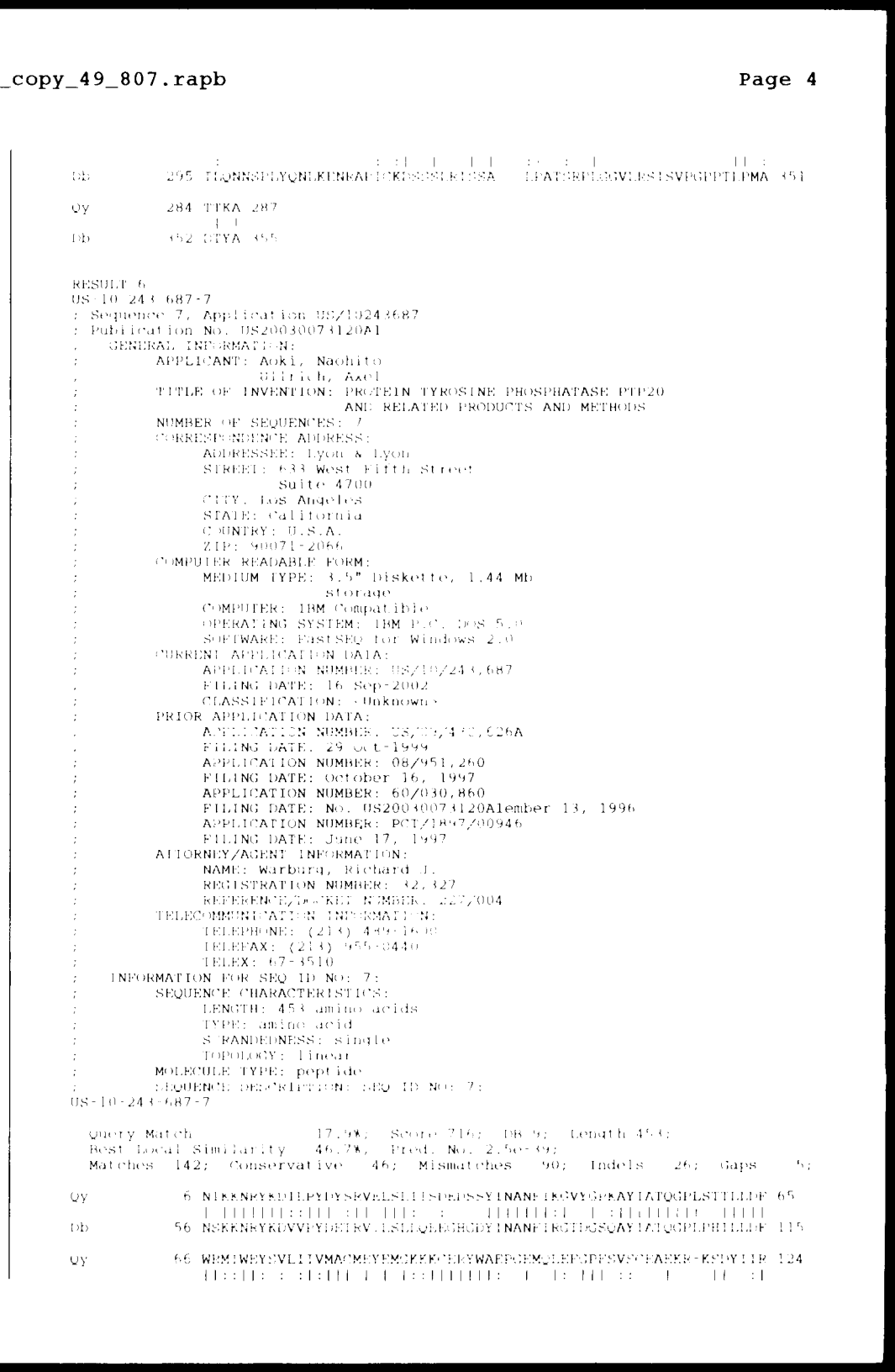
RESULT 5
US-10-087-993-32
; Sequence 32, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yeong Woong
; Wang, Hong Yang
; Chen, Zhengjun
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK,





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RESULT 7
US-10-087-993-36
; Sequence 36, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yeong Woong
; Wang, Hong Yang
; Chen, Zhengjun
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK,
; AND SIRP POLYPEPTIDES AND RELATED
; PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/087,993
; FILING DATE: 05-Mar 2002
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/877,150
; FILING DATE: June 17, 1997
; APPLICATION NUMBER: U.S. 60/019,629
; FILING DATE: June 17, 1996
; APPLICATION NUMBER: U.S. 60/023,485
; FILING DATE: August 9, 1996
; APPLICATION NUMBER: U.S. 60/030,860
; FILING DATE: No. US20020169303Alember 13, 1996
; APPLICATION NUMBER: U.S. 60/034,286
; FILING DATE: December 19, 1996
; APPLICATION NUMBER: U.S. 60/040,964
; FILING DATE: No. US20020169303Alember 15, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 225/298
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 458 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-087-993-36

Query Match 17.5%; Score 696.5; DB 9; Length 458;
Best Local Similarity 48.5%; Pred. No. 4.8e-38;
Matches 128; Conservative 53; Mismatches 78; Indels 5; Gaps 3;

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Db         53 RPENVRKNRYKDVLPYDQTRVILSLLQEEGHSDYINGNFIRGVDGSLAYIATQGPLPHTL 112

Qy         63 LDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDY 121

Db        113 LDFWRLVWEFGVKVILMACREIENGRKRCERYWAQEQE-PLQTGLFCITLIKEKWLNEDI 171

Qy        122 IIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSA 181

Db        172 MLRTLKVTFQKESRSVYQLQYMSWPDRGVPSSPDHMLAMVEEARRLQGSGPEPLCVHCSA 231

Qy        182 GCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLEL 241

Db        232 GCGRTGVLCTVDYVRQLLLTQMIPPDFSLFDVVLKMRKQRPAAVQTEEQYRFLYHTVAQM 291

Qy        242 FKRQMDVIRDKHSCTESQAKHCIP 265

Db        292 F---CSTLQNASPHYQNIKENCAP 312
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RESULT 8
US-10-245-539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077648A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; TITLE OF INVENTION: MID 4460, A HUMAN TYROSINE PHOSPHATASE
; TITLE OF INVENTION: FAMILY MEMBER AND USES THEREFOR
; FILE REFERENCE: MPI01-155P1RM
; CURRENT APPLICATION NUMBER: US/10/245,539
; CURRENT FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/323,018
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus sequence
US-10-245-539-6

Query Match 13.2%; Score 525.5; DB 9; Length 264;
Best Local Similarity 44.7%; Pred. No. 4e-27;
Matches 118; Conservative 43; Mismatches 74; Indels 29; Gaps 9;

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Qy          6 NIKKNRYKDILPYDYSRVELSLIDSDEDSSYINANFIKGVYGPK--AYIATQGPLSTT 60

Db          1 NRKKNRYKDILPYDESRVKL---------------------------TVTQGPLPSN 60

Qy         61 TLLDFWRMIWE-YSVLIIVMACMLMGKKKCERYWAEPGEMQLE-FGPFSVSCEAEK 116

Db         61 TVEDFWRMVWENQNSAIIVMLTRLVERGREKCDQYWPDEGEGENDSEIYGDISVILKSEE 120

Qy        117 -RKSDYIIRTLKV---          KRNSETRIIYQFHYKNWPDH-DVPSSIDPILELIWDV 164
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Db        [illegible] VV[illegible]NK[illegible]KERDEIREV[illegible]FHY[illegible]GW[illegible]HRGVPESFKSLLKFIRQV 180

Qy        [illegible] [illegible]       [illegible]THCSAGCGR[illegible]GV[illegible]AIDYIWMLLK DG[illegible]IPENFSVFSLIRE 216

Db        [illegible] [illegible]AGAC[illegible]VVH[illegible]SAGV[illegible]IMLE[illegible]EAFGFFSDVVDVFQIVKS 240

Qy        [illegible] MRI[illegible]LV[illegible]YELVYNAVLE 240

Db        [illegible] [illegible]IMV[illegible]YVE[illegible]YDA[illegible] 264


RESULT [illegible]
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; Sequence [illegible], Application US/[illegible]
; Publication No. [illegible]A1
; GENERAL INFORMATION:
;  APPLICANT: [illegible]
;  APPLICANT: [illegible]
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;  APPLICANT: [illegible]
;  APPLICANT: [illegible]
;  TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An [illegible]
;  TITLE OF INVENTION: [illegible] A Cellular Response
;  FILE REFERENCE: [illegible]
;  CURRENT APPLICATION NUMBER: [illegible]
;  CURRENT FILING DATE: [illegible]
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;  PRIOR FILING DATE: [illegible]
;  NUMBER OF SEQ ID NOS: [illegible]
;  SOFTWARE: [illegible]
; SEQ ID NO [illegible]
;   LENGTH: [illegible]
;   TYPE: [illegible]
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;   OTHER INFORMATION: [illegible] Fusion
US-[illegible]

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  Matches [illegible];  Conservative  102;  Mismatches  134;  Indels  151;  Gaps   26;

Qy        [illegible] [illegible]KNIKKN[illegible]SYINANFIK[illegible]VY[illegible]      KAYIATQ 55

Db        [illegible] [illegible]ENK[illegible]KNI[illegible]SYINANY[illegible]NAK[illegible] 3[illegible]

Qy        [illegible] [illegible]VMA[illegible]EYEM[illegible]WAF[illegible]EVA[illegible] 1[illegible]

Db        [illegible] [illegible]VN[illegible]VYMI[illegible] 3[illegible]

Qy        [illegible] KEE[illegible]RIKVK  [illegible]NSE [illegible]YQFHYKNW[illegible]VPSSIDP[illegible]LWDVRCYQED    170

Db        [illegible] [illegible]WH[illegible]VLSFLDQINQRQESLP 416

Qy        [illegible] [illegible]GV[illegible]AIDYIWMLLKDGIIPENFSVF[illegible]        IREMRTQR 221

Db        [illegible] [illegible]      MLMENI[illegible]MVEAQR 4[illegible]

Qy        [illegible] [illegible]VYNAV   [illegible]MEVIRE[illegible]QAKR[illegible]QADSYSP 278

Db        [illegible] [illegible]MV[illegible]KKELEV[illegible]       [illegible]YPP 5[illegible]

Qy        [illegible] N[illegible]KAAK              MMNQ[illegible]KIKM[illegible]AKEELVLHP     323

Db        [illegible] AM[illegible]KKR[illegible]KVKK[illegible]QSIVP 6[illegible]

Qy        [illegible]               AKSS[illegible]       FLELN      YSFDKNAI              ---      344

Db        [illegible] [illegible]VAIMV[illegible]DVN[illegible]YKI[illegible] 6[illegible]

Qy        [illegible]               [illegible]MKW[illegible]KA[illegible]VNAA[illegible]RYENK 3[illegible]

Db        [illegible] [illegible]GVQ[illegible]HMKQ[illegible]     FFKDD 718
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Qy        394 VP[illegible]TRIK[illegible]EVMQ[illegible]KVMRVSSA 447

Db        719 DNYK[illegible]VMAR[illegible]QENG 776

Qy        448 ELNY[illegible]KRNA[illegible]            NVKHHE[illegible]VGNEYFSSWPPSGIS 498

Db        777 KVNFKI      RENIE[illegible]SVQLAHYQQNIPIGDGPVL-  ---[illegible]NRYLS         I[illegible] 819

Qy        499 SKMSLDLPEKQDGTV 513

Db        820 SALSKDPNEKRDHMV 834


RESULT 10
US-10-176-847-22
; Sequence 22, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
;  APPLICANT: Velby, Petter Ole
;  TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
;  TITLE OF INVENTION:  IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
;  TITLE OF INVENTION:  AND OVARIAN CANCER
;  FILE REFERENCE: MRI-039
;  CURRENT APPLICATION NUMBER: US/10/176,847
;  CURRENT FILING DATE:  2002-06-21
;  NUMBER OF SEQ ID NOS: 112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
;   LENGTH: 1463
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-176-847-22

  Query Match             12.5%;  Score 500;  DB 9;  Length 1463;
  Best Local Similarity   42.0%;  Pred. No. 2.4e-24;
  Matches  102;  Conservative   46;  Mismatches   85;  Indels   10;  Gaps    4;

Qy          1 AEKPKNIKKNFYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLST 60

Db        929 AKEDENRNKNRYGNIISYDHSRVRLLVLDGDPHSDYINANYIDGYHRPRHYIATQGPMQE 988

Qy         61 [illegible]DFWRMIW[illegible]SVLIIVMA[illegible]EYEM[illegible]EKCERYWAE[illegible]EMQ[illegible]FSVS[illegible]A[illegible]KRKSD 120

Db        989 [illegible]VEDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV---YGDIKVTLIETEPLAE 1045

Qy        121 Y[illegible]EV   [illegible]SIDP[illegible]LWDVRCYQEDDSVPICIH 178

Db       1046 YVIR[illegible]VQKK[illegible]NPEAGPIVVH 1105

Qy        179 CSAGCGRTGVICAIDYIW MLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNA 237

Db       1106 CSAGAGRTGCFIAIDIMLDMAENEGVV      [illegible]NCVRELRAQRVNLVQTEEQYVFVHDA 1161

Qy        238 VLE 240

Db       1162 ILE 1164


RESULT 11
US-10-205-823-343
; Sequence 343, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
;  APPLICANT: Schlegel, Robert
;  APPLICANT:  Monahan, John E.
;  APPLICANT:  Endege, Wilson O.
;  APPLICANT:  Gannavarapu, Manjula
;  APPLICANT:  Gorbatcheva, Bella
;  APPLICANT:  Hoersch, Sebastian
;  APPLICANT:  Kamatkar, Shubhangi
;  APPLICANT:  Wonsey, Angela M.
;  APPLICANT:  Glatt, Karen
```

```
; APPLICANT: Chao, Xumei
; APPLICANT: Anderson, Destin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 343
;   LENGTH: 1463
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-205-823-343

  Query Match             12.5%;  Score 500;  DB 9;  Length 1463;
  Best Local Similarity   42.0%;  Pred. No. 2.4e-24;
  Matches  [illegible];  Conservative   46;  Mismatches   85;  Indels   10;  Gaps    4;

Qy          1 AEKPKNIEENE[illegible]SEVELFLITSLEDSSYINANFIKGVYGPKAYIATQGPLST 60
Db        929 AKEDENENENEYGNILPVDHSEVELIVLEGDPHSDYINANYIDGYHRPRHYIATQGPMQE 988

Qy         61 TILDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLLFGPFSVSCEAEKKKSD 120
Db        989 IVKDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV--YGDIKVTLIETEPLAE 1045

Qy        121 YIIRTLKV--KFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIH 178
Db       1046 YVIRTFTVQKKGYHEIRELRLFHFTSWPDHGVPCYATGLLGFVRQVKFLNPPEAGPIVVH 1105

Qy        179 CSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNA 237
Db       1106 CSAGAGRTGCFIAIDTMLDMAENEGVV--DIFNCVRELRAQRVNLVQTEEQYVFVHDA 1161

Qy        238 VLE 240
Db       1162 ILE 1164

RESULT 12
US-09-788-626-23
; Sequence 23, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
;  APPLICANT: Flint, Andrew J.
;  APPLICANT: Pool, Deborah B.
;  TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION: PHOSPHATASES
;  FILE REFERENCE: 200125.431
;  CURRENT APPLICATION NUMBER: US/09/788,626
;  CURRENT FILING DATE: 2001-02-13
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
;   LENGTH: 341
;   TYPE: PRT
;   ORGANISM: Dictyostelium discoideum
US-09-788-626-23

  Query Match             12.3%;  Score 491;  DB 10;  Length 341;
  Best Local Similarity   38.0%;  Pred. No. 1.1e-24;
  Matches  105;  Conservative   40;  Mismatches   89;  Indels   42;  Gaps    7;

Qy          2 EKPKNIEENEYKD[illegible]PYDYCRVELS[illegible]NANF[illegible]KGVYGPKAYIATQGPLSTT 61
Db          8 DKKHNTSKNRYTNILPVNHTPVQLKKIQDKEGSDYINANYIDGAY-PKQFICTQGPLPNT 66

Qy         62 IIDFWRMIWEYSVLIIVMACMEYEMGKK---KCERYWAEP------GEMQLEFGPFS 109
Db         67 IADFWRMVWENRCRIIVMLSREFESGSPNCRIKCDRYWPEQIGGEQFSIYGNGNEVFGIYS 126

Qy        110 VSCEAEKKKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQ 168
Db        127 VELVEVIQCPEIIERNIRLTEFQRTRSIIQYQYEGWPDHNIPDHTSPFRQLIHSIINRGN 186

Qy        169 -----EDDSVPICIHCSAGCGRTGVICA---       --IDYTWMLLKDGIIPENFS 209
Db        187 QIIFSSDRNVPLIVHCSAGVGRTGTFCTAVIMMKKISYFKCLDYNEP      PPN 238

Qy        210 VFSLIREMRTQRPSLVQTQEQYELVYNAVL-ELEKR 244
Db        239 LFSIVLKLREQRPGMVQQLEQYLFCYKIILDEIYHR 274

RESULT 13
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110803A1
; GENERAL INFORMATION:
;  APPLICANT: KAPLAN, DAVID
;  APPLICANT: MARSH, H. NICK
;  TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
;  TITLE OF INVENTION: COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
;  FILE REFERENCE: 08238/016001
;  CURRENT APPLICATION NUMBER: US/09/920,021A
;  CURRENT FILING DATE: 2001-08-01
;  PRIOR APPLICATION NUMBER: US/08/918,157
;  PRIOR FILING DATE: 1997-08-25
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-920-021A-1

  Query Match             12.1%;  Score 483.5;  DB 10;  Length 595;
  Best Local Similarity   34.7%;  Pred. No. 7.9e-24;
  Matches  122;  Conservative   [illegible];  Mismatches  [illegible];  Indels   57;  Gaps   13;

Qy          2 EKPKNIEENEYKD[illegible]NANFIKGVY[illegible]KAYIATQ 55
Db        266 QRPENKGKNRYKNILPFDH[illegible]INANYIKNQ[illegible]YIASQ 325

Qy         56 GPLSTTILDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 115
Db        326 G[illegible]EATVNDFWQMAWQENSRVIVMT[illegible]MGRA[illegible]CVINCGE 384

Qy        116 KKKSDYIIRTLKVK-FNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQED- 170
Db        385 HDTTPYKLRTLQVSPLDNGD[illegible]SWPDHGVPSEPGGVLSFLDQINQRQESLP 444

Qy        171 DSVPICIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSL-----IREMRTQR 221
Db        445 HAGPIIVHCSAGIGRTGTIIVID-------MLMENISTKGLDCDIDIQKTIQMVRAQR 495

Qy        222 PSLVQTQEQYELVYNAV [illegible] 278
Db        496 SGMVQTEAQYKF[illegible] 543

Qy        279 NLPKSTTKAAK [illegible] 308
Db        544 AMDNAHAKASK[illegible] 595
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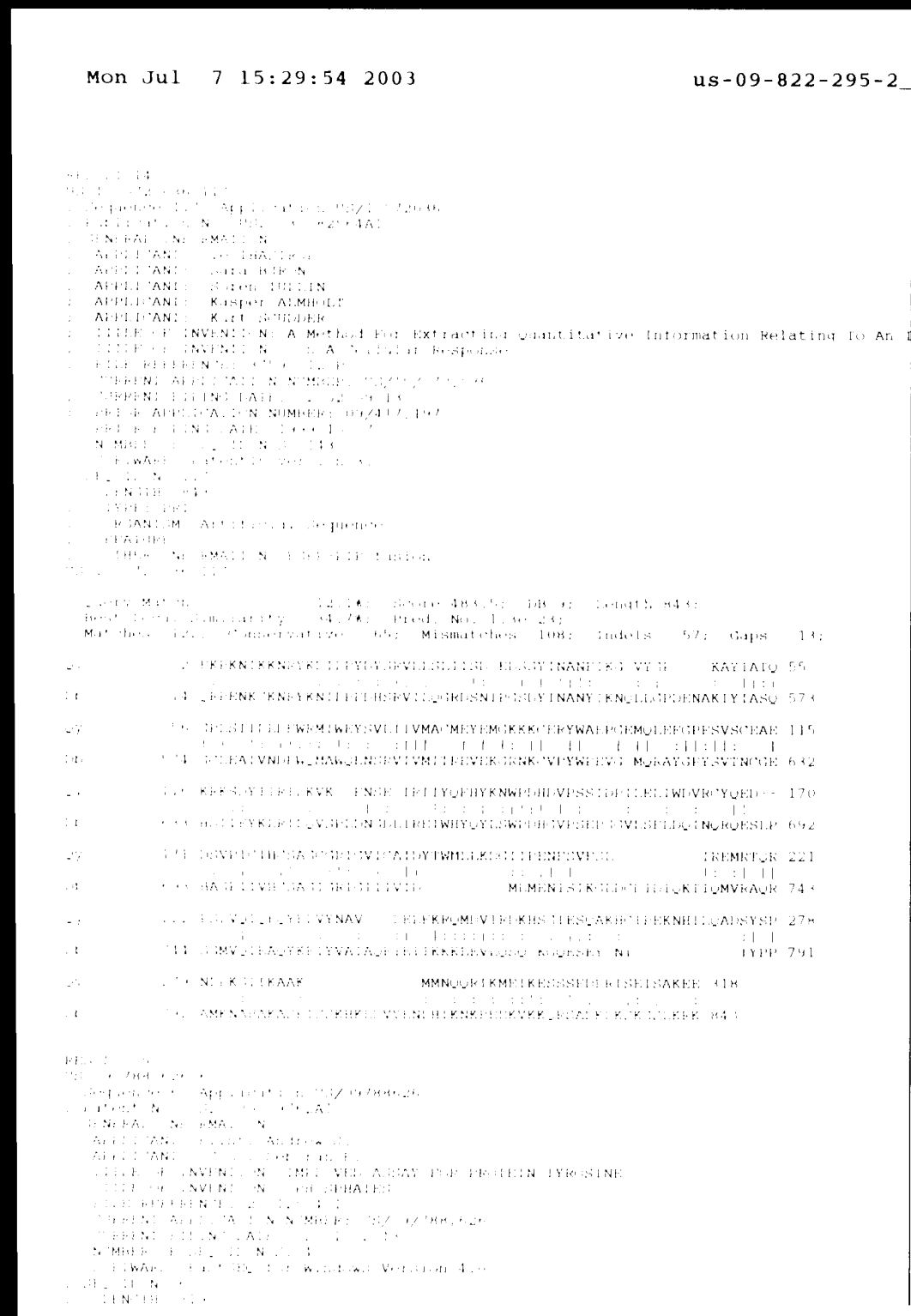

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; [illegible] 4A1
; GENERAL INFORMATION:
;  APPLICANT: [illegible]
;  APPLICANT: [illegible]
;  APPLICANT: Soren [illegible]
;  APPLICANT: Kasper ALMHOLT
;  APPLICANT: K[illegible] SCUDDER
;  TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
;  TITLE OF INVENTION: [illegible] A [illegible] Response
;  FILE REFERENCE: [illegible]
;  CURRENT APPLICATION NUMBER: [illegible]
;  CURRENT FILING DATE: [illegible]
;  PRIOR APPLICATION NUMBER: 09/417,197
;  PRIOR FILING DATE: [illegible]
;  NUMBER OF SEQ ID NOS: [illegible]
;  SOFTWARE: [illegible]
; SEQ ID NO [illegible]
;  LENGTH: [illegible]
;  TYPE: PRT
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: [illegible] fusion
[illegible]

  Query Match 12.1%; Score 483.5; DB [illegible]; Length 843;
  Best Local Similarity [illegible]; Pred. No. [illegible];
  Matches [illegible]; Conservative [illegible]; Mismatches 108; Indels 57; Gaps 13;

Qy [illegible] [illegible]YINANF[illegible]KAYIATQ 55
Db [illegible] [illegible]ENK[illegible]KNEYKN[illegible]YINANY[illegible]KNQLLGPDENAKIYIASQ 573

Qy [illegible] [illegible]EWEMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 115
Db [illegible] [illegible]EAIVND[illegible]VPYWPEVG MQKAYGPYSVTNCGE 632

Qy [illegible] KEE[illegible]KVK [illegible]IYQFHYKNWPDHDVPSS[illegible]WDVRCYQED-- 170
Db [illegible] [illegible]WHYQYLSWP[illegible]INQRQESLP 692

Qy [illegible] [illegible]AIDYTWMLLKD[illegible]IREMRTQR 221
Db [illegible] [illegible]MLMENISTK[illegible]QKTIQMVRAQR 743

Qy [illegible] [illegible]VYNAV [illegible]EEKRQMDVIR[illegible]AKH[illegible]EKNH[illegible]ADSYSP 278
Db [illegible] [illegible]TYPP 791

Qy [illegible] N[illegible]K[illegible]KAAK MMNQQRIKMEIKESSSFD[illegible]SEISAKEE 318
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RESULT [illegible]
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; Sequence [illegible] Application [illegible]/09788626
; [illegible]
; GENERAL INFORMATION:
;  APPLICANT: [illegible] Andrew [illegible]
;  APPLICANT: [illegible]
;  TITLE OF INVENTION: [illegible] ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION: [illegible]PHATES
;  FILE REFERENCE: [illegible]
;  CURRENT APPLICATION NUMBER: [illegible]/788,626
;  CURRENT FILING DATE: [illegible]
;  NUMBER OF SEQ ID NOS: [illegible]
;  SOFTWARE: [illegible] for Windows Version 4.0
; SEQ ID NO [illegible]
;  LENGTH: [illegible]
;  TYPE: PRT
;  ORGANISM: Homo sapiens
US-09-788-626-6

  Query Match 12.0%; Score 477; DB 10; Length 319;
  Best Local Similarity 37.4%; Pred. No. 8.4e-24;
  Matches 110; Conservative 50; Mismatches 106; Indels 28; Gaps 8;

Qy 4 PKNIKKNRYKDILPYDYSRVELSLITSDED--SSYINANFIKGVYGPKAYIATQGPLSTT 61
Db 10 PENKHKNRYINILAYDHSRVKLRPLPGKDSKHSDYINANYVDGYNKAKAYIATQGPLKST 69

Qy 62 [illegible]FWEMIWEYSVLIIVMACMEYEMGKKK[illegible]RYWAE[illegible] 121
Db 70 FEDFWKMIWE[illegible] 127

Qy 122 [illegible] IRTLKVKFNSE TRTIYQFHYKNWPDHDVP[illegible] 170
Db 128 IVE[illegible]QWPDMGVPEYALPVLTFVRRSSAARMP 187

Qy 171 [illegible]TWMLLKDG[illegible] 230
Db 188 ETGPVLVHCSAGVGRTGTYIVIDSMLQQIKD KSTVNV[illegible]NYLVQTEEQ 244

Qy 231 YELVYNAVLE LFKRQMDVIRD------KHSGIESQ---AKHCIPEKNHTLQAD 274
Db 245 YIFIHDALLEAILGK[illegible]NYLVQIE 298

Search completed: July 7, 2003, 14:44:58
Job time : 37.1833 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:22:05 ; Search time 14.3932 Seconds
(without alignments)
1551.569 Million cell updates/sec

Title: US-09-822-295-2_COPY_49_807
Perfect score: 3989
Sequence: 1 AEKPKNIKKNFYKDILPYDY FANRFSKPKGPENPPPTWNI 759

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: [illegible] *
2: [illegible] *
3: [illegible] *
4: [illegible] *
5: [illegible] *
6: [illegible] *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3989	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	2710.5	67.9	802	4	US-09-081-345-18	Sequence 18, Appl
3	1247	31.3	278	4	US-08-821-278A-18	Sequence 18, Appl
4	945	23.7	272	4	US-08-821-278A-19	Sequence 19, Appl
5	925	23.2	253	2	US-08-685-992-20	Sequence 20, Appl
6	925	23.2	253	2	US-09-144-925-20	Sequence 20, Appl
7	[illegible]	17.9	453	3	US-08-951-260A-7	Sequence 7, Appli
8	707.5	17.7	453	4	US-08-821-278A-2	Sequence 2, Appli
9	[illegible]	12.4	1439	2	US-08-449-644-2	Sequence 2, Appli
10	[illegible]	12.4	1439	2	US-08-087-244A-2	Sequence 2, Appli
11	[illegible]	12.4	1337	3	US-08-854-585-2	Sequence 2, Appli
12	[illegible]	12.4	1337	5	PCT-US95-05512-2	Sequence 2, Appli
13	491	12.3	277	2	US-08-685-992-22	Sequence 22, Appl
14	491	12.3	277	2	US-09-144-925-22	Sequence 22, Appl
15	485.5	12.2	595	1	US-08-202-389-6	Sequence 6, Appli
16	485.5	12.2	1442	1	US-08-015-986A-3	Sequence 3, Appli
17	485.5	12.2	1442	2	US-08-446-363-3	Sequence 3, Appli
18	483	12.1	1452	2	US-08-652-971-4	Sequence 4, Appli
19	483	12.1	1452	2	US-08-991-258A-4	Sequence 4, Appli
20	483	12.1	1452	2	US-08-769-399-4	Sequence 4, Appli
21	483	12.1	1452	3	US-08-991-953A-4	Sequence 4, Appli
22	481.5	12.1	631	1	US-08-202-389-8	Sequence 8, Appli
23	481	12.1	1452	2	US-08-449-644-8	Sequence 8, Appli
24	481	12.1	1452	2	US-08-087-244A-8	Sequence 8, Appli
25	479.5	12.0	1457	2	US-08-652-971-3	Sequence 3, Appli
26	479.5	12.0	1457	2	US-08-449-644-1	Sequence 1, Appli
27	479.5	12.0	1457	2	US-08-087-244A-1	Sequence 1, Appli
28	479.5	12.0	1457	2	US-08-991-258A-3	Sequence 3, Appli
29	479.5	12.0	1457	2	US-08-769-399-3	Sequence 3, Appli
30	479.5	12.0	1457	3	US-08-991-953A-3	Sequence 3, Appli
31	477.5	12.0	1445	1	US-08-015-986A-2	Sequence 2, Appli
32	477.5	12.0	1445	2	US-08-446-363-2	Sequence 2, Appli
33	477	12.0	2308	1	US-08-015-971-1	Sequence 1, Appli
34	477	12.0	2308	2	US-08-448-164-1	Sequence 1, Appli
35	477	12.0	2308	4	US-08-081-929-2	Sequence 2, Appli
36	477	12.0	2314	4	US-09-816-703A-2	Sequence 2, Appli
37	476	11.9	593	1	US-08-018-129-5	Sequence 5, Appli
38	476	11.9	593	2	US-08-448-250-5	Sequence 5, Appli
39	473	11.9	249	2	US-08-685-992-8	Sequence 8, Appli
40	473	11.9	249	2	US-09-144-925-8	Sequence 8, Appli
41	472	11.8	292	1	US-08-036-210-12	Sequence 12, Appl
42	472	11.8	292	2	US-08-449-609-12	Sequence 12, Appl
43	465	11.7	263	2	US-08-685-992-5	Sequence 5, Appli
44	465	11.7	263	2	US-09-144-925-5	Sequence 5, Appli
45	463.5	11.6	593	1	US-08-202-389-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

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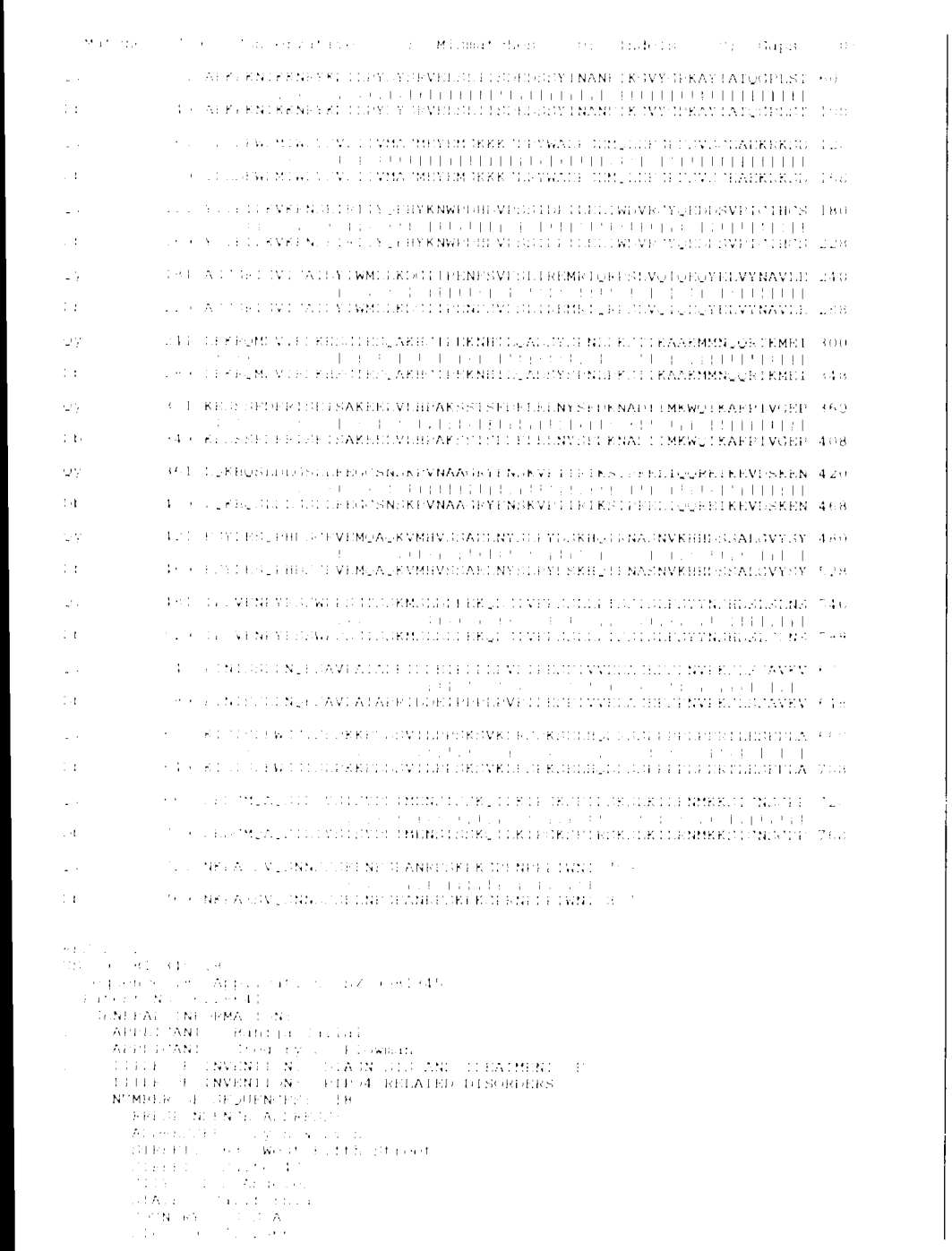
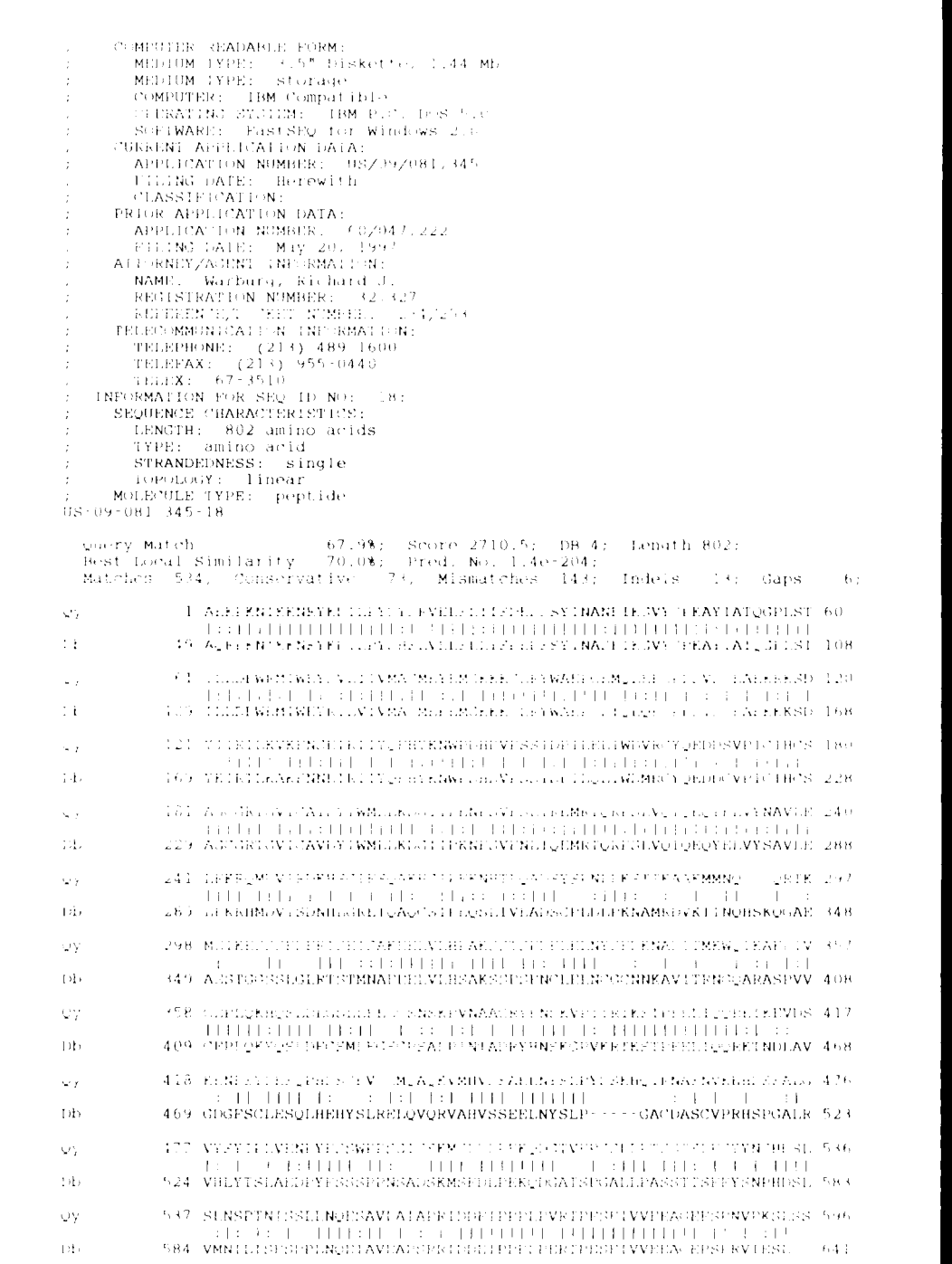
Best Local Similarity 100.0%; Pred. No. 4.7e-405;



; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 111,253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081,345-18

Query Match 67.9%; Score 2710.5; DB 4; Length 802;
Best Local Similarity 70.0%; Pred. No. 1.4e-204;
Matches 534; Conservative 74; Mismatches 143; Indels 13; Gaps 6;



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Db        642 [illegible]PPLPERTLES 699

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Db        760 SSSPSKPTEEVQPKNSSSFLNFGFGNRFSKPKGPRNPPSAWNM 802

RESULT 3
US-08-821-278A-18
; Sequence 18, Application US/08821278A
; Patent No. [illegible]
; GENERAL INFORMATION:
;  APPLICANT: Cheng, Jill
;  APPLICANT: Lasky, Laurence A.
;  TITLE OF INVENTION: Protein Tyrosine Phosphatases
;  FILE REFERENCE: P1010R1
;  CURRENT APPLICATION NUMBER: US/08/821,278A
;  CURRENT FILING DATE: 1997-03-20
;  NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 18
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-08-821-278A-18

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  Best Local Similarity   88.5%;  Pred. No. 3e-90;
  Matches  224;  Conservative   19;  Mismatches   10;  Indels    0;  Gaps    0;

Qy          1 AEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLST 60
Db         26 AQKEENIKKNRYKDILPYDYSRVELSLITSDEDSSYINASFIKGVYGPKAYIATQGPLST 85

Qy         61 TLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSD 120
Db         86 TLLDFWRMIWEYRILVIVMACMEFEMGKKKCERYWAEPGETQLQFGPFSISCEAEKKKSD 145

Qy        121 YIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCS 180
Db        146 YKIRTLKAKFNNETRTIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQEDDCVPICIHCS 205

Qy        181 AGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIPEMRTQRPSLVQTQECYELVYNAVLE 240
Db        206 AGCGRTGVICAVDYTWMLLKDGIIPKNFSVFNLIQEMRTQRPSLVQTQECYELVYSAVLE 265

Qy        241 LFKRQMDVIRDKH 253
Db        266 LFKRHMDVISDNH 278

RESULT 4
US-08-821-278A-19
; Sequence 19, Application US/08821278A
; Patent No. [illegible]
; GENERAL INFORMATION:
;  APPLICANT: Cheng, Jill
;  APPLICANT: Lasky, Laurence A.
;  TITLE OF INVENTION: Protein Tyrosine Phosphatases
;  FILE REFERENCE: P1010R1
;  CURRENT APPLICATION NUMBER: US/08/821,278A
;  CURRENT FILING DATE: 1997-03-20
;  NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 19
;   LENGTH: 27[illegible]
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-08-821-278A-19

  Query Match             23.7%;  Score 945;  DB 4;  Length 272;
  Best Local Similarity   68.2%;  Pred. No. 1.6e-66;
  Matches  167;  Conservative   40;  Mismatches   38;  Indels    0;  Gaps    0;

Qy          2 EKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLST 61
Db         27 EKEENVKKNRYK[illegible] 86

Qy         62 LLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDY 121
Db         87 VIDFWRMVWLYNVV[illegible] 146

Qy        122 IIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSA 181
Db        147 FIRTLLLEFQNESRRLYQFHYVNWPDHDVPSSFDSILDMISLMRKYQEHEDVPICIHCSA 206

Qy        182 GCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIPEMRTQRPSLVQTQECYELVYNAVLEL 241
Db        207 GCGRTGAICAIDYTWNLLKAGKIP[illegible]YELVHRAIAQL 266

Qy        242 FKRQM 246
Db        267 FEKQL 271

RESULT 5
US-08-685-992-20
; Sequence 20, Application US/08685992
; Patent No. 5912138
;  GENERAL INFORMATION:
;    APPLICANT: Tonks, Nicholas
;    APPLICANT: Flint, Andrew J.
;    TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
;    TITLE OF INVENTION: TYROSINE PHOSPHATASES
;    NUMBER OF SEQUENCES: 36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;      STREET: Two Militia Drive
;      CITY: Lexington
;      STATE: MA
;      COUNTRY: USA
;      ZIP: 02173
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Diskette
;      COMPUTER: IBM Compatible
;      OPERATING SYSTEM: Windows 95
;      SOFTWARE: FastSEQ for Windows Version 2.0b
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/685,992
;      FILING DATE: 25-JUL-1996
;      CLASSIFICATION: 435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME: Granahan, Patricia
;      REGISTRATION NUMBER: 32,227
;      REFERENCE/DOCKET NUMBER: CSHL96-0[illegible]
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 781-861-6240
;      TELEFAX: 781-861-9540
;      TELEX:
;  INFORMATION FOR SEQ ID NO: 20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 253 amino acids
;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;    MOLECULE TYPE: peptide
US-08-685-992-20
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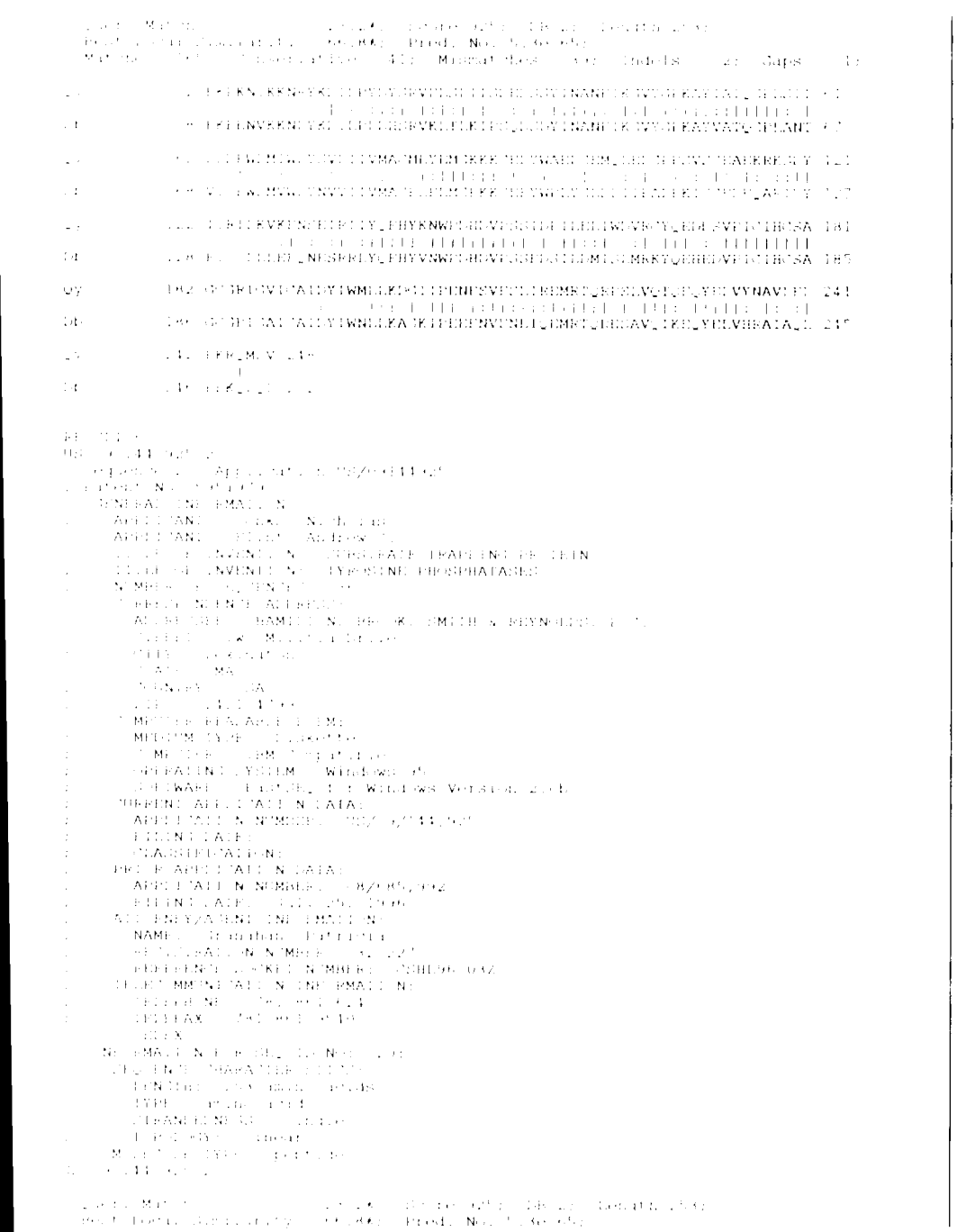

Matches 165; Conservative 41; Mismatches 39; Indels 2; Gaps 1;

RESULT 7
US 08/951,260A-7
; Sequence 7, Application US/08951260A
; Patent No. 6004791
; GENERAL INFORMATION:
; APPLICANT: Aoki, Nuohito
; APPLICANT: Gil, Jodi, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; TITLE OF INVENTION: AND RELATED POLYPEPTIDES AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071 2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/951,260A
; FILING DATE: October 16, 1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/030,860
; FILING DATE: No. 6004791ember 13, 1996
; APPLICATION NUMBER: PCT/1867/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955 0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US 08/951,260A-7

Query Match 17.9%; Score 716; DB 3; Length 453;
Best Local Similarity 46.7%; Pred. No. 3.5e-48;
Matches 142; Conservative 46; Mismatches 90; Indels 26; Gaps 5;

RESULT 8
US-08-821-278A-2
; Sequence 2, Application US/08821278A
; Patent No. 5780592
; GENERAL INFORMATION:
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Mus Musculus
US-08-821-278A-2

Query Match 17.7%; Score 707.5; DB 4; Length 453;
Best Local Similarity 48.6%; Pred. No. 1.6e-47;
Matches 134; Conservative 51; Mismatches 84; Indels 7; Gaps 4;

US-08-449-644-2
; Sequence 2, Application US/08449644
; Patent No. 5856162
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; APPLICANT: Fuchs, Miriam
; TITLE OF INVENTION: NOVEL RECEPTOR TYPE PHOSPHOTYROSINE
; TITLE OF INVENTION: PHOSPHATASE-KAPPA
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/449,644
; FILING DATE: 24-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/087,244
; FILING DATE: 01-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 2683-042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1439 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-449-644-2

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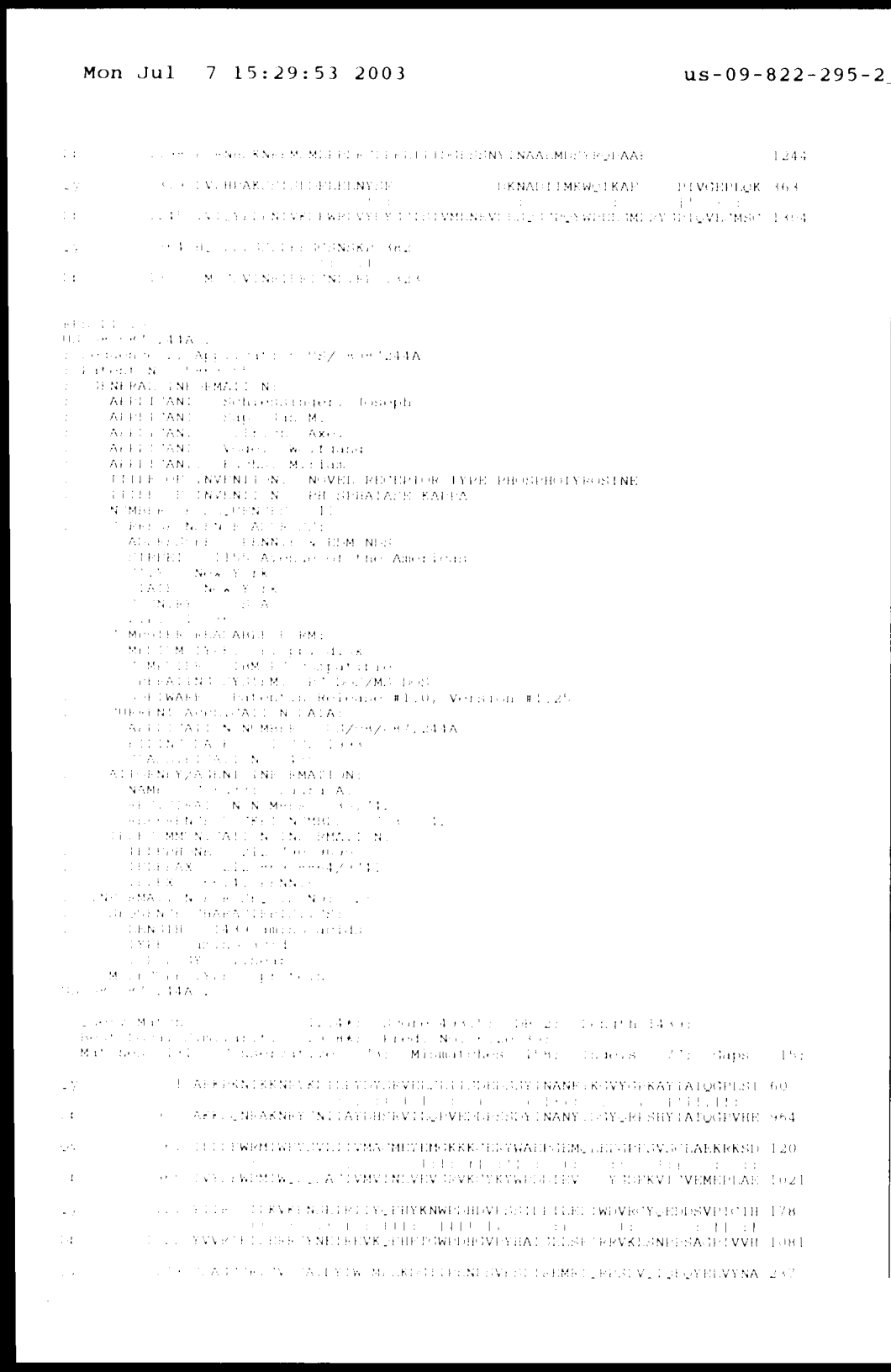
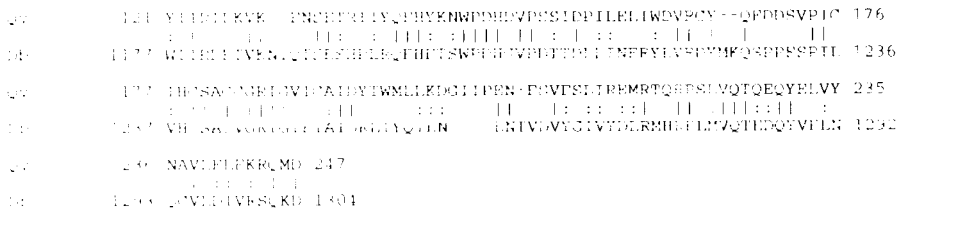
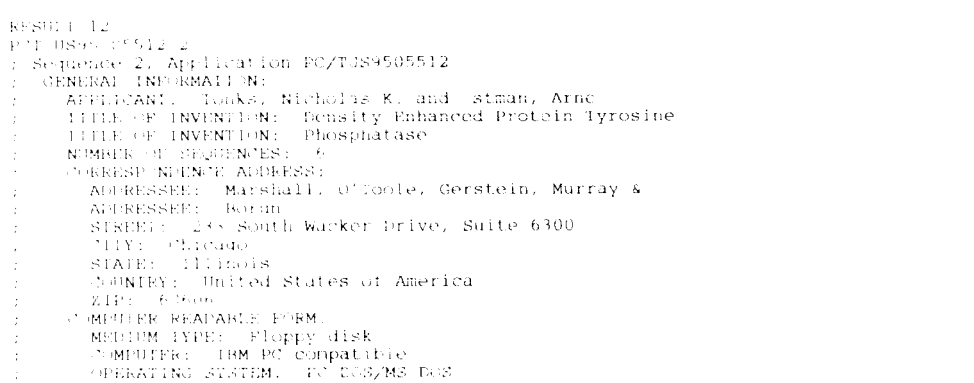
Matches 131; Conservative 73; Mismatches 158; Indels 77; Gaps 15;

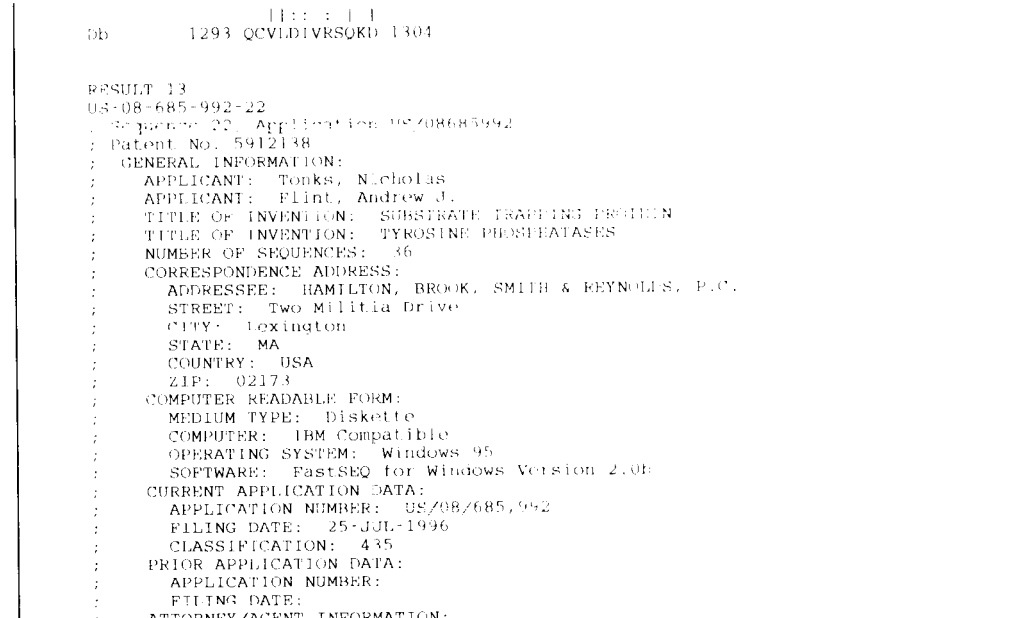


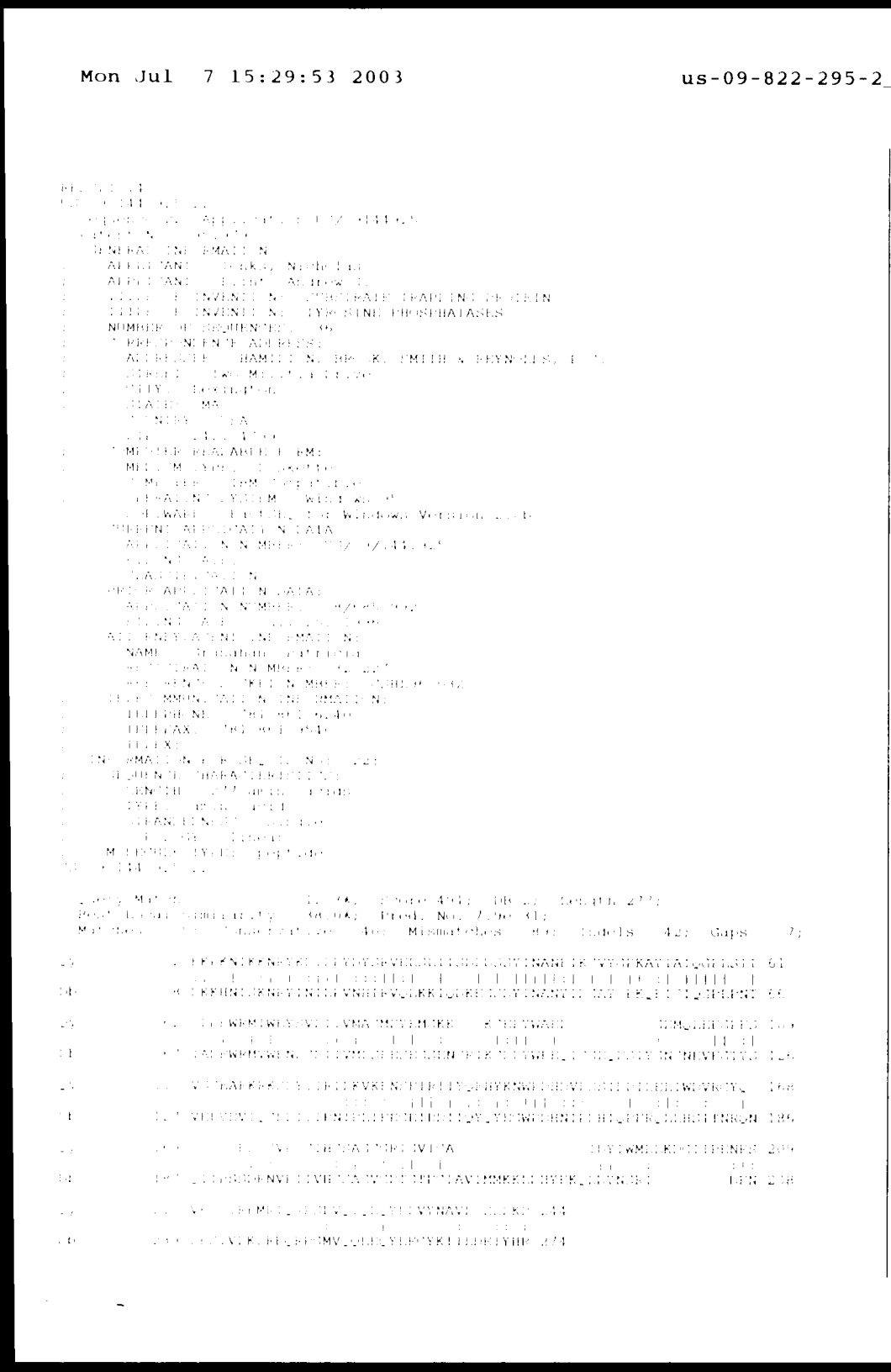


RESULT 12
PCT/US95/05512/2
; Sequence 2, Application PC/TUS9505512
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas K. and Ostman, Arne
; TITLE OF INVENTION: Density Enhanced Protein Tyrosine
; TITLE OF INVENTION: Phosphatase
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Borun
; STREET: 233 South Wacker Drive, Suite 6300
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05512
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27866/31954
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1337 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT/US95/05512/2



RESULT 13
US-08-685-992-22
; Sequence 22, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL96-03
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 277 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-685-992-22





RESULT 15
US-08-202-389-6
; Sequence 6, Application US/08202389
; Patent No. 5536636
; GENERAL INFORMATION:
; APPLICANT: Freeman Jr., Robert M.
; APPLICANT: Plutzky, Jorge
; APPLICANT: Neel, Benjamin G.
; APPLICANT: Rosenberg, Robert D.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL TYROSINE
; TITLE OF INVENTION: PHOSPHATASES HAVING SH2 DOMAINS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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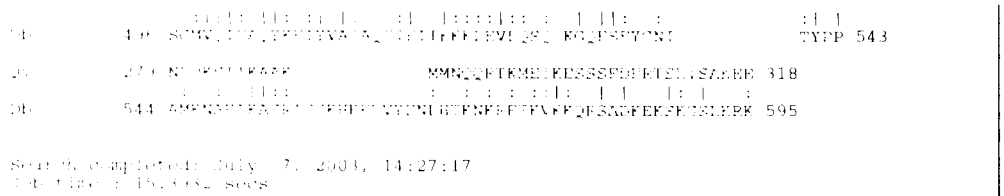
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/202,389
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/989,920
; FILING DATE: 01-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/829,141
; FILING DATE: 31-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/721,112
; FILING DATE: 26-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: 6188P2 US/MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 595 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-202-389-6

Query Match 12.2%; Score 485.5; DB 1; Length 595;
Best Local Similarity 34.7%; Prod. No. 6.9e-30;
Matches 122; Conservative 65; Mismatches 106; Indels 57; Gaps 13;



Search completed: July 7, 2003, 14:27:17

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:25:45 ; Search time 13.6285 Seconds
(without alignments)
2480.711 Million cell updates/sec

Title: US-09-822-295-2_COPY_1_294
Perfect score: 1563
Sequence: 1 MEQRHILQKFLDEAQSEKII..........IQEQYELVYNAVLELFKPQM 294

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440863 seqs, 114992915 residues

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1563	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	1417	90.7	802	10	US-09-822-295-18	Sequence 18, Appl
3	943	60.3	312	10	US-09-788-626-21	Sequence 21, Appl
4	755.5	48.3	448	9	US-10-087-993-32	Sequence 32, Appl
5	755.5	48.3	453	9	US-10-243-687-7	Sequence 7, Appli
6	727	46.5	458	9	US-10-087-993-36	Sequence 36, Appl
7	625.5	40.0	264	9	US-10-245-539-6	Sequence 6, Appli
8	[illegible]	[illegible]	1463	9	US-10-176-847-22	Sequence 22, Appl
9	[illegible]	32.0	1463	9	US-10-205-823-343	Sequence 343, App
10	496	31.7	341	10	US-09-788-626-23	Sequence 23, Appl
11	475	30.4	305	10	US-09-788-626-9	Sequence 9, Appli
12	474.5	30.4	595	10	US-09-920-021A-1	Sequence 1, Appli
13	474.5	30.4	843	9	US-10-072-036-117	Sequence 117, App
14	474.5	30.4	853	9	US-10-072-036-119	Sequence 119, App
15	471	30.1	593	10	US-09-920-021A-3	Sequence 3, Appli
16	470.5	30.1	442	10	US-09-925-300-950	Sequence 950, App
17	[illegible]	30.1	1948	9	US-09-808-602-55	Sequence 55, Appl
18	[illegible]	30.1	1948	9	US-09-800-198-45	Sequence 45, Appl
19	[illegible]	[illegible]	597	9	US-10-038-010-22	Sequence 22, Appl
20	465	29.8	319	10	US-09-788-626-6	Sequence 6, Appli
21	464	29.7	1502	9	US-09-808-602-54	Sequence 54, Appl
22	464	29.7	1502	9	US-09-800-198-44	Sequence 44, Appl
23	462.5	29.6	1093	9	US-10-245-539-4	Sequence 4, Appli
24	462.5	29.6	1118	9	US-10-245-539-2	Sequence 2, Appli
25	462.5	29.6	1118	9	US-10-245-539-8	Sequence 8, Appli
26	461.5	29.5	294	10	US-09-788-626-27	Sequence 27, Appl
27	461	29.5	248	9	US-10-293-231-10	Sequence 10, Appl
28	461	29.5	248	10	US-09-848-294-10	Sequence 10, Appl
29	461	29.5	309	10	US-09-788-626-12	Sequence 12, Appl
30	457.5	29.3	2301	9	US-09-822-871-4	Sequence 4, Appli
31	455	29.1	2314	9	US-09-983-009A-6	GENERAL INFORMA.I
32	455	29.1	2353	9	US-09-983-009A-4	Sequence 4, Appli
33	454.5	29.1	281	10	US-09-788-626-28	Sequence 28, Appl
34	451.5	28.9	2291	9	US-09-822-871-2	Sequence 2, Appli
35	449.5	28.8	316	10	US-09-788-626-5	Sequence 5, Appli
36	449.5	28.8	316	10	US-09-788-626-26	Sequence 26, Appl
37	449	28.7	317	10	US-09-788-626-4	Sequence 4, Appli
38	448.5	28.7	2308	12	US-10-000-954-2	Sequence 2, Appli
39	447	28.6	313	10	US-09-788-626-17	Sequence 17, Appl
40	446	28.5	325	10	US-09-788-626-13	Sequence 13, Appl
41	443	28.3	313	10	US-09-788-626-7	Sequence 7, Appli
42	441.5	28.2	322	10	US-09-788-626-14	Sequence 14, Appl
43	441	28.2	913	9	US-10-293-231-2	Sequence 2, Appli
44	441	28.2	913	10	US-09-848-294-2	Sequence 2, Appli
45	438.5	28.1	979	9	US-10-038-686-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/25
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids

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;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-822-295-2

  Query Match            100.0%;  Score 1563;  DB 10;  Length 807;
  Best Local Similarity  100.0%;  Pred. No. 8.5e-145;
  Matches  294;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 MEQRLILQKRLLEEAQSKKLIKEEFANEFLKLKRQSTKYKADKIYPTTVAEKPENIKKNRY 60

Qy         61 KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120
Db         61 KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120

Qy        121 SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNS 180
Db        121 SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNS 180

Qy        181 ETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db        181 ETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240

Qy        241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
Db        241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294


RESULT 2
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; Sequence 18, Application US/09822295
; Patent No. US20020[illegible]A1
; GENERAL INFORMATION:
;         APPLICANT: [illegible]
;                    [illegible] Flowman
;         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                             PTP 4 RELATED DISORDERS
;         NUMBER OF SEQUENCES: 18
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: Lyon & Lyon
;              STREET: 633 West Fifth Street
;                       Suite 4700
;              CITY: Los Angeles
;              STATE: California
;              COUNTRY: U.S.A.
;              ZIP: 90071-2066
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                           storage
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: IBM P.C. DOS 5.0
;              SOFTWARE: FastSEQ for Windows 2.0
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/822,295
;              FILING DATE: 02 Apr 2001
;              CLASSIFICATION: Unknown
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 60/[illegible]
;              FILING DATE: Unknown
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Warburg, Richard J.
;              REGISTRATION NUMBER: [illegible]
;              REFERENCE/DOCKET NUMBER: 234/[illegible]
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (213) 489-1600
;              TELEFAX: (213) [illegible]-0440
;              TELEX: [illegible]
;  INFORMATION FOR SEQ ID NO: 18:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 802 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

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  Matches  258;  Conservative   22;  Mismatches   14;  Indels    0;  Gaps    0;

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Db          1 MDQREILQQLLKEAQKKKLNSEEFASEFLKLKRQSTKYKADKIYPTTVAQRPKNIKKNRY 60

Qy         61 KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120
Db         61 KDILPYDHSLVELSLLTSDEDSSYINASFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120

Qy        121 SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNS 180
Db        121 RILVIVMACMEFEMGKKKCERYWAEPGEQQLQFGPFSISCEAEKKKSDYKILTLKAKFNN 180

Qy        181 ETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db        181 ETRTIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQEDDCVPICIHCSAGCGRTGVICAV 240

Qy        241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
Db        241 DYTWMLLKDGIIPKNFSVFNLIQEMRTQRPSLVQTQEQYELVYSAVLELFKRHM 294


RESULT 3
US-09-788-626-21
; Sequence 21, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
;  APPLICANT: Flint, Andrew J.
;  APPLICANT:  Cool, Deborah E.
;  TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION:  PHOSPHATES
;  FILE REFERENCE: 200125.401
;  CURRENT APPLICATION NUMBER: US/09/788,626
;  CURRENT FILING DATE:  2001-02-13
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
;   LENGTH: 312
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-788-626-21

  Query Match            60.3%;  Score 943;  DB 10;  Length 312;
  Best Local Similarity  66.9%;  Pred. No. 1.9e-84;
  Matches  168;  Conservative   40;  Mismatches   41;  Indels    2;  Gaps    1;

Qy         44 YPTTVAEKPENIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQ 103
Db          2 YHTAIGLRRLLNVKKNSYKDIIPYDHSRVKLSLIPSDEYSYINANFIKGVYGPKAYVATQ 61

Qy        104 GPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 163
Db         62 GPLANTVIDFWRMVWEYNVVIIVMACREFEMGRKKCERYWPLYGEDPITFAPFKISCEDE 121

Qy        164 KRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPI 223
Db        122 QARTDYFI--RTLLLEFQNESRRLYQFHYVNWPDHDVPSSFDSILDMISLMRKYQEHEDVPI 179

Qy        224 CIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVY 283
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Qy        2[illegible] NAV[illegible]EKR[illegible]M 294

Db        2[illegible] KAIA[illegible]EEK[illegible] 2[illegible]

RESULT 4
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; Sequence [illegible], Application US/10087993
; Patent No. US[illegible]
;   GENERAL INFORMATION:
;        APPLICANT: Ullrich, Axel
;                   Aoki, Naohito
;                   Kim, Yoone Woong
;                   Wang, Hong Yang
;                   Chen, Zhengjun
;                   Naylor, Oliver
;                   Kharitonenkov, Alexei Igorevich
;        TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK,
;                            AND SIRP POLYPEPTIDES AND RELATED
;                            PRODUCTS AND METHODS
;        NUMBER OF SEQUENCES: 38
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                          storage
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: IBM P.C. DOS 5.0
;             SOFTWARE: FastSEQ for Windows 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/087,993
;             FILING DATE: 05-Mar-2002
;             CLASSIFICATION: 435
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/[illegible]877,150
;             FILING DATE: June 17, 1997
;             APPLICATION NUMBER: U.S. 60/019,629
;             FILING DATE: June 17, 1996
;             APPLICATION NUMBER: U.S. 60/023,485
;             FILING DATE: August 9, 1996
;             APPLICATION NUMBER: U.S. 60/030,863
;             FILING DATE: No. US20020169303Alember 13, 1996
;             APPLICATION NUMBER: U.S. 60/034,285
;             FILING DATE: December 19, 1996
;             APPLICATION NUMBER: U.S. 60/030,964
;             FILING DATE: No. US20020169303Alember 15, 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: 225/299
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 32:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 453 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 32:
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  Best Local Similarity   48.[illegible]%;  Pred. No. 8e-66;
  Matches 111;  Conservative   55;  Mismatches   95;  Indels    3;  Gaps    3;

Qy          3 QRE[illegible]KF[illegible]DEAQSKK[illegible]AN[illegible]KR[illegible]SIKYKADKIY[illegible]IVAEKPKNIKKNEYK 6[illegible]

Db          4 QSPLVRSPLE[illegible]QEARDHP[illegible]KAL[illegible]VAWAID[illegible]V[illegible]TEA[illegible]NSKKNEYK 63

Qy         62 DI[illegible]PYD[illegible]SRVE[illegible]N[illegible]EWENIWE[illegible] 12[illegible]

Db         64 DVVPYDETRVILSLLQEEGHGDYINANFIR[illegible]GSQAYIATQGPLPH[illegible]L[illegible]FWELVWE[illegible] 123

Qy        122 VL[illegible]VMA[illegible]MEKK[illegible]AEKR[illegible]KSE[illegible]EVKENS 18[illegible]

Db        124 IKVILMACQETENGRRKCERYWAQEKE[illegible]KEIALI[illegible]VIPQK 182

Qy        181 ETRTIYQFHYKNWPDHDV[illegible]SSID[illegible]WDVR[illegible]VP[illegible]HCSA[illegible]GR[illegible]VI[illegible]AI 2[illegible]

Db        183 ESRPVHQLQYMSWPDHGVPSSSDHILIMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAV 242

Qy        241 DYTWML[illegible]EN[illegible]SV[illegible]EM[illegible]V[illegible]VYNAV[illegible]EKRQM 294

Db        243 DYVRQLLLTQTIPPNFSLFEVVLEMRKQRPAAVQTEEQYRFLYHTVAQLFSRTL 296
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RESULT 5
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030073120A1
;   GENERAL INFORMATION:
;        APPLICANT: Aoki, Naohito
;                   Ullrich, Axel
;        TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
;                            AND RELATED PRODUCTS AND METHODS
;        NUMBER OF SEQUENCES: 7
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                          storage
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: IBM P.C. DOS 5.0
;             SOFTWARE: FastSEQ for Windows 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/243,687
;             FILING DATE: 16-Sep-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/430,626A
;             FILING DATE: 29-Oct-1999
;             APPLICATION NUMBER: [illegible]
;             FILING DATE: October 1[illegible], 199[illegible]
;             APPLICATION NUMBER: [illegible]/030,[illegible]
;             FILING DATE: No. US[illegible]Alember 1[illegible], 1996
;             APPLICATION NUMBER: [illegible]
;             FILING DATE: June 17, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: [illegible]
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 7:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 453 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
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;          MOLECULE TYPE: peptide
;          SEQUENCE DESCRIPTION: SEQ ID NO: 7:
[illegible]

  Query Match             48.[illegible]%;  Score 755.5;  DB 9;  Length 453;
  Best Local Similarity   48.[illegible]%;  Pred. No. 8.1e-66;
  Matches  [illegible];  Conservative  [illegible];  Mismatches  [illegible];  Indels  [illegible];  Gaps  [illegible];

Qy   [illegible] [illegible]EEI[illegible]KEI[illegible]EAL[illegible]KK[illegible]IKEE[illegible]FANE[illegible]EK[illegible]AE[illegible]IVAE[illegible]ENIEENEYK 61
Db   [illegible] [illegible]VE[illegible]EAKDHEK[illegible]A[illegible]LAEEF[illegible]SDIKA[illegible]VAWK[illegible]N[illegible]EENEYK [illegible]

Qy   [illegible] [illegible]YINANFIK[illegible]VY[illegible]KAYIA[illegible]PLS[illegible]FWEMIWEYS 121
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Qy   [illegible] [illegible]V[illegible]VMA[illegible]M[illegible]KKE[illegible]YWA[illegible]LKVKENS 183
Db   [illegible] [illegible]KV[illegible]MA[illegible]N[illegible]K[illegible]YWA[illegible]VI[illegible]K 182

Qy   [illegible] [illegible]Y[illegible]HYENW[illegible]V[illegible]IWDVR[illegible]Y[illegible]HCSA[illegible]GR[illegible]VI[illegible]AI 240
Db   [illegible] [illegible]VE[illegible]YMGWPDHGVPEYPSSDHI[illegible]LMVEEAR[illegible]HCSAGGGRTGVLCAV 242

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RESULT 6
[illegible]
; Sequence [illegible], Application US/[illegible]
; Patent No. [illegible]A1
; GENERAL INFORMATION:
;  APPLICANT: [illegible], Axel
;             Aoki, Naohito
;             Kim, Yeong Woong
;             Wang, Hong Yang
;             [illegible]
;             Nguyen, Oliver
;             Kh[illegible]enkov, Alexei Igorevich
;  TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK,
;                      AND [illegible]POLYPEPTIDES AND RELATED
;                      PRODUCTS AND METHODS
;  NUMBER OF SEQUENCES: [illegible]
;  CORRESPONDENCE ADDRESS:
;    ADDRESSEE: [illegible]
;    STREET: [illegible] West [illegible]th Street
;            Suite 4[illegible]
;    CITY: [illegible] Angeles
;    STATE: California
;    COUNTRY: USA
;    ZIP: [illegible]
;  COMPUTER READABLE FORM:
;    MEDIUM TYPE: [illegible]" Diskette, 1.44 MB
;                 storage
;    COMPUTER: IBM Compatible
;    OPERATING SYSTEM: IBM P.C. DOS [illegible]
;    SOFTWARE: FastSEQ for Windows [illegible]
;  CURRENT APPLICATION DATA:
;    APPLICATION NUMBER: US/10/[illegible]
;    FILING DATE: [illegible] Mar 2002
;    CLASSIFICATION: [illegible]
;  PRIOR APPLICATION DATA:
;    APPLICATION NUMBER: [illegible]/08/[illegible]
;    FILING DATE: June 17, 1997
;    APPLICATION NUMBER: U.S. 60/[illegible]
;    FILING DATE: June 1[illegible], 1996
;    APPLICATION NUMBER: U.S. 60/023,4[illegible]
;    FILING DATE: August [illegible], 1996
;    APPLICATION NUMBER: U.S. 60/0[illegible]
;    FILING DATE: No. [illegible]Alember 1[illegible], 1996
;    APPLICATION NUMBER: U.S. [illegible]
;    FILING DATE: December 19, 1996
;    APPLICATION NUMBER: U.S. 60/030,964
;    FILING DATE: No. US2002016930301ember 15, 1996
;  ATTORNEY/AGENT INFORMATION:
;    NAME: Warburg, Richard J.
;    REGISTRATION NUMBER: 32,327
;    REFERENCE/DOCKET NUMBER: 225/298
;  TELECOMMUNICATION INFORMATION:
;    TELEPHONE: (213) 489-1600
;    TELEFAX: (213) 955-0440
;    TELEX: 67-3510
;  INFORMATION FOR SEQ ID NO: 36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 458 amino acids
;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;    MOLECULE TYPE: peptide
;    SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-087-993-36

  Query Match             46.5%;  Score 727;  DB 9;  Length 458;
  Best Local Similarity   50.2%;  Pred. No. 5.2e-63;
  Matches  134;  Conservative  49;  Mismatches  82;  Indels  2;  Gaps  2;

Qy    25 ANFELEKKQSIKYEADKVPIIVAEEKENIEENRYKDIIPYDYSRV[illegible]SSY 84
Db    27 AGEFSDIQACSAAWKADGVCSIVAGSRPENVEKNRYKDVLPYDQTRV ILSLLQEEGHSDY 86

Qy    85 INANFIKGVYGEKAYIATQGPLSTTLLDFWEMIWEYSVLIIVMACME[illegible]EKKKCERYWA 144
Db    87 INGNFIRGVDGSLAYIATQGPLPHTLLDFWRLVWEFGVKVILMACRE IENGRKRCERYWA 146

Qy   145 EPGEMQLEFGPFSVSCEA[illegible]EKSDYIIRTLKVKFNSET[illegible]TIYQFHYKNWPDHDVPSSID 203
Db   147 QEQEPLQTGLFCITLIKEKWLNEDIMLRTLKVTFQKESRSVYQLQYMSWPDRGVPSSPD 205

Qy   204 PILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTWMLLKDG[illegible]IPENFSVFSLIR 263
Db   206 HMLAMVEEARRLQGSGPEPLCVHCSAGCGRTGVLCTVDYVRQLLLTQMIPPDFSLFDVVL 265

Qy   264 EMRTQRPSLVQTQEQYELVYNAVLELF 290
Db   266 KMRKQRPAAVQTEEQYRFLYHTVAQMF 292

RESULT 7
US-10-245-539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077638A1
; GENERAL INFORMATION:
;  APPLICANT: Logan, Thomas Joseph
;  TITLE OF INVENTION: MID 4460, A HUMAN TYROSINE PHOSPHATASE
;  TITLE OF INVENTION:  FAMILY MEMBER  AND USES THEREFOR
;  FILE REFERENCE: MPI01-155P1RM
;  CURRENT APPLICATION NUMBER: US/10/245,539
;  CURRENT FILING DATE:  2002-12-05
;  PRIOR APPLICATION NUMBER: 60/323,018
;  PRIOR FILING DATE: 2001-09-18
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: consensus sequence
US-10-245-539-6

  Query Match             33.6%;  Score 525.5;  DB 9;  Length 264;
  Best Local Similarity   44.7%;  Pred. No. 1.5e-43;
  Matches  118;  Conservative  43;  Mismatches  74;  Indels  29;  Gaps  9;
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Qy         54 NIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPK----AYIATQGPL-ST 108
Db          1 NKKKNRYKDILPYDHSRVELIPIDGEEGSDYINASYIKYIDCYKQKKASYIATQGPLPSN 60

Qy        109 TLLDFWRMIWE-YSVLIIVMACMEYEMGKKKCERYWAEPGEMQLE--FGPFSVSCEAEK 164
Db         61 IVEDFWRMVWENQNSAIIVMLTRLVEPGPEKCDQYWPDEGEGENDGETYGDISVTLKSEE 120

Qy        165 RKSDYIIRTLKV--------KFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDV 212
Db        121 VVLEDYIVRILELINTGAGEGQDKERDETREVTQFHYTGWPDHRCVPESPKSLLKFIRQV 180

Qy        213 RCYQEDDSV           PICIHCSAGCGRTGVICAIDYTWMLLK-DGIIPENFSVFSLIRE 264
Db        181 RKSQFQSGPSAGASDGPIVVHCSAGVGRTGTFIALDIMLEQLEAEGPPSDVVDVFQTVKS 240

Qy        265 MRTQRPSLVQTQEQYELVYNAVLE 288
Db        241 LRSQRPGMVQIEEQYVFIYDAILE 264
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RESULT 8
US-10-176-847-22
; Sequence 22, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICANT: Veiby, Petter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 1463
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176-847-22

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  Query Match             32.0%;  Score 500.5;  DB 9;  Length 1463;
  Best Local Similarity   40.7%;  Pred. No. 4.3e-40;
  Matches  105;  Conservative   49;  Mismatches   91;  Indels   13;  Gaps    5;

Qy         37 KYKA---DKTYPTTVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGV 93
Db        914 EYEALPEGQIASWDIAKEDENRNKNRYGNIISYDHSRVRLLVLDGDPHSDYINANYIDGY 973

Qy         94 YGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEF 153
Db        974 HRPRHYIATQGPMQETVKDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV---Y 1030

Qy        154 GPFSVSCEAEKRKSDYIIRTLKV--KFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWD 211
Db       1031 GDIKVTLIETEPLAEYVIRTFTVQKKGYHEIRELRLFHFTSWPDHGVPCYATGLLGFVRQ 1090

Qy        212 VRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW-MLLKDGIIPENFSVFSLIREMRTQRP 270
Db       1091 VKFLNPPEAGPIVVHCSAGAGRTGCFIAIDIMLDMAENEGVV----DIFNCVRELRAQRV 1146

Qy        271 SLVQTQEQYELVYNAVLE 288
Db       1147 NLVQTEEQYVFVHDAILE 1164
```

RESULT 9
US-10-205-823-343
; Sequence 343, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbatcheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, ... AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 343
; LENGTH: 1463
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-205-823-343

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  Query Match             32.0%;  Score 500.5;  DB 9;  Length 1463;
  Best Local Similarity   40.7%;  Pred. No. 4.3e-40;
  Matches  105;  Conservative   49;  Mismatches   91;  Indels   13;  Gaps    5;

Qy         37 KYKA---DKTYPTTVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGV 93
Db        914 EYEALPEGQIASWDTAKEDENRNKNRYGNIISYDHSRVRLLVLDGDPHSDYINANYIDGY 973

Qy         94 YGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEF 153
Db        974 HRPRHYIATQGPMQETVKDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV---Y 1030

Qy        154 GPFSVSCEAEKRKSDYIIRTLKV--KFNSEIRTIYQFHYKNWPDHDVPSSIDPILELIWD 211
Db       1031 GDIKVTLIETEPLAEYVIRTFTVQKKGYHEIRELRLFHFTSWPDHGVPCYATGLLGFVRQ 1090

Qy        212 VRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW-MLLKDGIIPENFSVFSLIREMRTQRP 270
Db       1091 VKFLNPPEAGPIVVHCSAGAGRTGCFIAIDIMLDMAENEGVV----DIFNCVRELRAQRV 1146

Qy        271 SLVQTQEQYELVYNAVLE 288
Db       1147 NLVQTEEQYVFVHDAILE 1164
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RESULT 10
US-09-788-626-23
; Sequence 23, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23

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  LENGTH: 541
  TYPE: PRT
  ORGANISM: [illegible]
[illegible]

  Query Match [illegible]; Score 495; DB [illegible]; Length 541;
  Best Local Similarity [illegible]; Pred. No. [illegible];
  Matches [illegible]; Conservative 41; Mismatches [illegible]; Indels 42; Gaps 7;

Qy     [illegible] IIVAEK[illegible]NANE[illegible]PKAYIAIQG[illegible]
Db       4 [illegible]KKHN[illegible]VNHIKVQ[illegible]NAN[illegible] 62

Qy     [illegible]FWEMIWEYSVI[illegible]IVMA[illegible]MEYEMGKK [illegible]WAEP[illegible] GEMQLEF 153
Db     [illegible]NI[illegible]WEMVWENR[illegible]IVML[illegible]YWPEQ[illegible]YGNGNEVF 122

Qy     [illegible]AEKRKS[illegible]KVKENSEIR[illegible]YQFHYKNWPDHDVPSS[illegible]ILELIWDVR 213
Db     [illegible]YSVE[illegible]ENIRL[illegible]YQYE[illegible]WP[illegible]PFRQLLHSII 182

Qy     [illegible]VE[illegible]GIVI[illegible]A [illegible]YIWMLLKDG[illegible]IP 253
Db     [illegible]NVE[illegible]VH[illegible]AVIMMKK[illegible]HYEKQLDYNSRI [illegible] 235

Qy     [illegible]MR[illegible]LVQ[illegible]QEQYELVYNAVI ELFKK 292
Db     [illegible]VKLFEQ[illegible]MVQ[illegible]EQYLE[illegible]YK[illegible]YHE 274


RESULT 11
[illegible]
; Sequence [illegible], Application US/[illegible]
; Patent No. [illegible]A1
; GENERAL INFORMATION:
;  APPLICANT: [illegible], Andrew J.
;  APPLICANT: [illegible]
;  TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION: PHOSPHATASES
;  FILE REFERENCE: [illegible]
;  CURRENT APPLICATION NUMBER: [illegible]
;  CURRENT FILING DATE: [illegible]
;  NUMBER OF SEQ ID NOS: [illegible]
;  SOFTWARE: [illegible] for Windows Version 4.[illegible]
; SEQ ID NO [illegible]
;   LENGTH: [illegible]
;   TYPE: PRT
;   ORGANISM: [illegible] sapiens
[illegible]

  Query Match [illegible]; Score 4[illegible]; DB [illegible]; Length [illegible];
  Best Local Similarity [illegible]; Pred. No. [illegible];
  Matches [illegible]; Conservative [illegible]; Mismatches [illegible]; Indels 8; Gaps 3;

Qy      4[illegible] [illegible]IVAEKPKN[illegible]KNEYK[illegible]PYDY[illegible]PVEL[illegible]YINANF[illegible]KAYIAIQG 104
Db     [illegible]KKL[illegible]Y[illegible]IAYI[illegible]PFVE[illegible]YIN[illegible]YHEPNHYIATQG 62

Qy     [illegible]FWEMIWEYSVI[illegible]IVMACMEYEMGKKK[illegible]YWAE[illegible]SVG[illegible]EAEK 164
Db     [illegible]FW[illegible]MVWHENIAG[illegible]IHMV[illegible]Y[illegible]KYW[illegible]YK[illegible] 119

Qy     [illegible]KVKENSEIRKIYQFHYKNWPDHDVPSSIDP[illegible]ELIWDVR[illegible]YQEDDSVPI[illegible] 224
Db     [illegible]YVI[illegible]AVEK[illegible]VHF[illegible]QFHF[illegible]WPE[illegible]VPYHA[illegible]FVRQVKSKSPPSAGPLV 17[illegible]

Qy     [illegible]YIW[illegible]MLLKDG[illegible]YHLVY 28[illegible]
Db     [illegible]VH[illegible]HC[illegible]MAFF[illegible]VV [illegible]YNP[illegible]VNMV[illegible]QYVFIH 23[illegible]

Qy     [illegible] NAVIE [illegible]
Db     [illegible] A[illegible]


RESULT 12
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
;  APPLICANT: KAPLAN, DAVID
;  APPLICANT:  MARSH, H. NICK
;  TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
;  TITLE OF INVENTION:  COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
;  FILE REFERENCE: [illegible]/016001
;  CURRENT APPLICATION NUMBER: US/09/920,021A
;  CURRENT FILING DATE:  2001-08-01
;  PRIOR APPLICATION NUMBER: US/08/918,157
;  PRIOR FILING DATE: 1997-08-25
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-920-021A-1

  Query Match             30.4%;  Score 474.5;  DB 10;  Length 595;
  Best Local Similarity   38.3%;  Pred. No. 4.6e-38;
  Matches  116;  Conservative   50;  Mismatches  100;  Indels   37;  Gaps   11;

Qy         15 QSKE[illegible]IKE[illegible]ANE[illegible]IKYKA[illegible]IVALKPENIKKN[illegible]KDILPYDYCRVELS 74
Db        235 [illegible]IAKACEWEEPE[illegible]KEVE     NL[illegible]KPENKGKNRYKNILPFDHSRVILQ 290

Qy         75 LITSD EDSSYINANFIKG VYGP[illegible]   KAYIATQGPLSTTLLDFWRMIWEYSVLIIVMA 128
Db        291 GRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 350

Qy        129 CMEYEMGKKKCERYWAE[illegible]KAEKRKSDY[illegible]KVK--FNSE[illegible]RII 185
Db        351 TREVEKGRNKCVPYWPEVG MQRAYGPYSVTNCGEHDTTEYKLRTLQVSPLDNGDLIREI 409

Qy        186 Y[illegible]FHYKNWP[illegible]SIDPILELIWDVR[illegible]GIVI[illegible]AIDIF 243
Db        410 WHYQYLSWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVID   467

Qy        244 WMLLKDGIIPENFSVFTL           IREMRTQRPSLVQTQEQYELVYNAV   IELFK 291
Db        468 -       MLMENISTKGLD[illegible]KIIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETTK 520

Qy        292 KQM 294
Db        521 KKL 523


RESULT 13
US-10-072-036-117
; Sequence 117, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
;  APPLICANT: Ole THASTRUP
;  APPLICANT:  Sara [illegible]
;  APPLICANT:  Soren [illegible]
;  APPLICANT:  Kasper ALMHOLT
;  APPLICANT:  Karl SCUDDER
;  TITLE OF INVENTION: A Method for Extracting Quantitative Information Relating to A
;  TITLE OF INVENTION:  on A Cellular Response
;  FILE REFERENCE: 3759-0120P
;  CURRENT APPLICATION NUMBER: US/10/072,036
;  CURRENT FILING DATE:  2002-09-13
;  PRIOR APPLICATION NUMBER: 09/417,197
;  PRIOR FILING DATE: 1999-10-07
;  NUMBER OF SEQ ID NOS: 143
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 117
```

```
    LENGTH: 843
    TYPE: PRT
    ORGANISM: Artificial Sequence
    FEATURE:
    OTHER INFORMATION: EGFP PTP fusion
US-10-072-036-117

  Query Match             30.4%;  Score 474.5;  DB 9;  Length 843;
  Best Local Similarity   38.3%;  Pred. No. 7.3e-38;
  Matches  116;  Conservative   50;  Mismatches  100;  Indels   37;  Gaps   11;

Qy         15 QSKKITKEEFANEFLKLKRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYDYSRVELS 74
Db        48[illegible] [illegible]IKEAGFWEEFE[illegible]LQKQEVK----NLHQRLEGQRPENK[illegible]NRYKNILPFDHSRVILQ 538

Qy         75 LITSD-EDSSYINANFIKG-VYGP----KAYIATQGPLSTTLLDFWRMIWEYSVLIIVMA 128
Db        5[illegible] GRDGNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 598

Qy        129 CMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVK--FNSE-TRTI 185
Db        5[illegible] [illegible] 65[illegible]

Qy        186 YQFHYKNWPDHDVPSSIDPILELIWDVRCYQED--DSVPICIHCSAGCGRTGVICAIDYT 243
Db        6[illegible] WHYQYLSWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVID-- 715

Qy        244 WMLLKD[illegible]IPENFSVFSL            IFEMRTQRPSLVQTQEQYELVYNAV---LELFK 291
Db        7[illegible]           [illegible]VAIAQFIFLK 768

Qy        292 RQM 294
Db        76[illegible] KKL [illegible]


RESULT 14
US-10-072-036-119
; Sequence 119, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
;  APPLICANT: Ole THASTRUP
;  APPLICANT: Sara BJORN
;  APPLICANT: Soren TULLIN
;  APPLICANT: Kasper ALMHOLT
;  APPLICANT: Kurt SCUDDER
;  TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
;  TITLE OF INVENTION: on A Cellular Response
;  FILE REFERENCE: 3759-0120P
;  CURRENT APPLICATION NUMBER: US/10/072,036
;  CURRENT FILING DATE: 2002-09-13
;  PRIOR APPLICATION NUMBER: 09/417,197
;  PRIOR FILING DATE: 1999-10-07
;  NUMBER OF SEQ ID NOS: 13[illegible]
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 119
;   LENGTH: 853
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: PTP EGFP fusion
US-10-072-036-119

  Query Match             30.4%;  Score 474.5;  DB 9;  Length 853;
  Best Local Similarity   38.3%;  Pred. No. 7.4e-38;
  Matches  116;  Conservative   50;  Mismatches  100;  Indels   37;  Gaps   11;

Qy         15 QSKKITKEEFANEFLKLKRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYDYSRVELS 74
Db        237 ESEDIAKAGFWEEFESLQKQEVK----NLHQRLEGQRPENKGKNRYKNILPFDHSRVILQ 292

Qy         75 LITSD-EDSSYINANFIKG-VYGP----KAYIATQGPLSTTLLDFWRMIWEYSVLIIVMA 128
Db        293 GRDGNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 352

Qy        129 CMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVK--FNSE-TRTI 185
Db        353 TREVEKGRNKCVPYWPEVG-MQRAYGPYSVTNCGEHDTTEYKLRTLQVSPLDNGDLIREI 411

Qy        186 YQFHYKNWPDHDVPSSIDPILELIWDVRCYQED--DSVPICIHCSAGCGRTGVICAIDYT 243
Db        412 WHYQYLSWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVI   469

Qy        244 WMLLKDCIIPENFSVFSL            IFEMRTQRPSLVQTQEQYELVYNAV   LELFK 291
Db        470       MLMENISTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETFK 522

Qy        292 RQM 294
Db        523 KKL 525


RESULT 15
US-09-920-021A-3
; Sequence 3, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
;  APPLICANT: KAPLAN, DAVID
;  APPLICANT: MARSH, H. NICK
;  TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
;  TITLE OF INVENTION: COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
;  FILE REFERENCE: 08338/016001
;  CURRENT APPLICATION NUMBER: US/09/920,021A
;  CURRENT FILING DATE: 2001-08-01
;  PRIOR APPLICATION NUMBER: US/[illegible]/919,157
;  PRIOR FILING DATE: 1997-08-25
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-920-021A-3

  Query Match             30.1%;  Score 471;  DB 10;  Length 593;
  Best Local Similarity   36.8%;  Pred. No. 1e-37;
  Matches  112;  Conservative   55;  Mismatches  103;  Indels   34;  Gaps   10;

Qy         14 AQSKKITKEEFANEFLKLKRQSTKYKADKTYPTTVAEKPKNIKKNRYKDIIPYDYSRVEL 73
Db        237 AETTDKVKQGFWEEFETLQQQECKL----LYSRKEGQRQENKNKNRYKNILPFDHTRV-- 290

Qy         74 SLITSLPD--   SSYINANFIKGVY--------GPKAYIATQGPLSTTLLDFWRMIWEY 120
Db        291   VLHDGDPNEPVSDYINANIIMPEFETKCNNSKPKKSYIATQGCLQNTVNDFWRMVFQE 348

Qy        121 SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKV     176
Db        349 NSRVIVMTTKEVERGKSKCVKYWPDEYALKEYGVMRVRNVKESAAHDYTLRELKLSKV 406

Qy        177 -KFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQED--DSVPICIHCSAGCGR 230
Db        407 GQGNTE-RTVWQYHFRTWPDHGVPSDPGGVLDFLEEVHHKQESIMDAGPVVVHCSAGIGR 465

Qy        231 TGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAV   LELF 290
Db        466 TGTFIVIDILIDIIREKGVDCDIDVPKTIQMVRSQRSGMVQTEAQYRFIYMAVQHYIETL 525

Qy        291 KRQM 294
Db        526 QRRI 529


Search completed: July 7, 2003, 14:44:56
Job time : 11.6283 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:22:05 ; Search time 5.57522 Seconds
(without alignments)
1551.569 Million cell updates/sec

Title: US-09-822-295-2_COPY_1_294
Perfect score: 1563
Sequence: 1 MDQRFIIQKFIDTAQSKKIT..........TQEQYELVYNAVLELFKRQM 294

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 23422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

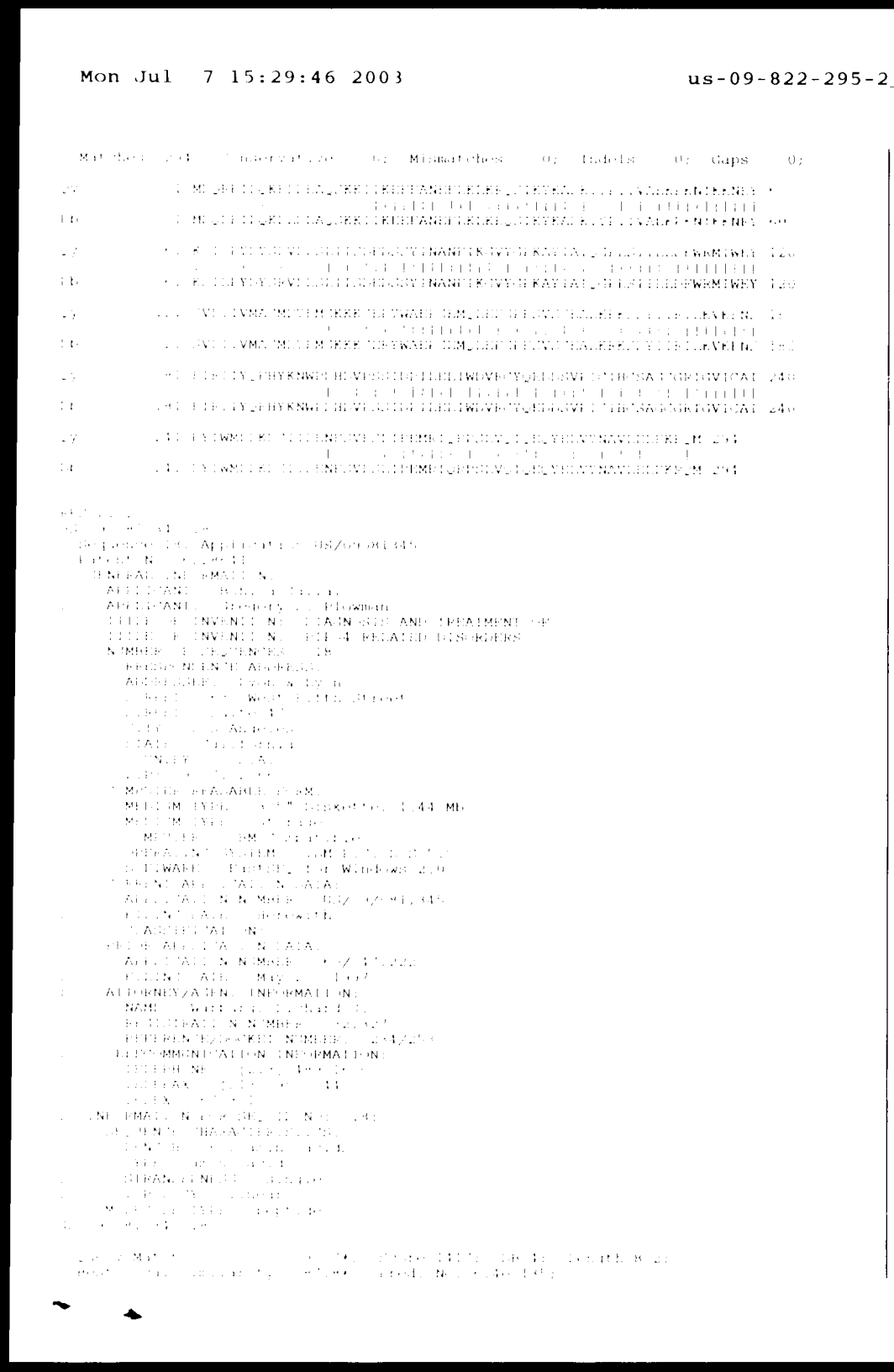
SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1563	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	1417	90.7	802	4	US-09-081-345-18	Sequence 18, Appl
3	1338	85.6	278	4	US-08-821-278A-18	Sequence 18, Appl
4	1024	65.5	272	4	US-08-821-278A-19	Sequence 19, Appl
5	943	60.3	253	2	US-08-685-992-20	Sequence 20, Appl
6	943	60.3	253	2	US-09-144-925-20	Sequence 20, Appl
7	755.5	48.3	453	2	US-08-951-260A-7	Sequence 7, Appli
8	738.5	47.2	453	4	US-08-821-278A-2	Sequence 2, Appli
9	501.5	32.1	1337	2	US-08-854-585-2	Sequence 2, Appli
10	501.5	32.1	1337	5	PCT-US95-05512-2	Sequence 2, Appli
11	496.5	31.8	1459	2	US-08-449-644-2	Sequence 2, Appli
12	496.5	31.8	1459	2	US-08-087-244A-2	Sequence 2, Appli
13	495	31.7	277	2	US-08-685-992-22	Sequence 22, Appl
14	495	31.7	277	2	US-09-144-925-22	Sequence 22, Appl
15	493	31.5	292	1	US-08-036-210-12	Sequence 12, Appl
16	493	31.5	292	2	US-08-449-609-12	Sequence 12, Appl
17	488.5	31.3	1452	2	US-08-652-971-4	Sequence 4, Appli
18	488.5	31.3	1452	2	US-08-991-258A-4	Sequence 4, Appli
19	488.5	31.3	1452	2	US-08-769-399-4	Sequence 4, Appli
20	488.5	31.3	1452	3	US-08-991-953A-4	Sequence 4, Appli
21	486.5	31.1	1452	2	US-08-449-644-8	Sequence 8, Appli
22	486.5	31.1	1452	2	US-08-087-244A-8	Sequence 8, Appli
23	484	31.0	1442	1	US-08-015-986A-3	Sequence 3, Appli
24	484	31.0	1442	2	US-08-446-363-3	Sequence 3, Appli
25	482.5	30.9	1457	2	US-08-652-971-3	Sequence 3, Appli
26	482.5	30.9	1457	2	US-08-449-644-1	Sequence 1, Appli
27	482.5	30.9	1457	2	US-08-087-244A-1	Sequence 1, Appli
28	482.5	30.9	1457	2	US-08-991-258A-3	Sequence 3, Appli
29	482.5	30.9	1457	2	US-08-769-399-3	Sequence 3, Appli
30	482.5	30.9	1457	3	US-08-991-953A-3	Sequence 3, Appli
31	481	30.8	593	1	US-08-018-129-5	Sequence 5, Appli
32	481	30.8	593	2	US-08-448-250-5	Sequence 5, Appli
33	476.5	30.5	595	1	US-08-202-389-6	Sequence 6, Appli
34	475	30.4	249	2	US-08-685-992-8	Sequence 8, Appli
35	475	30.4	249	2	US-09-144-925-8	Sequence 8, Appli
36	475	30.4	1445	1	US-08-015-986A-2	Sequence 2, Appli
37	475	30.4	1445	2	US-08-446-363-2	Sequence 2, Appli
38	474.5	30.4	631	1	US-08-202-389-8	Sequence 8, Appli
39	471	30.1	593	1	US-08-202-389-12	Sequence 12, Appl
40	467.5	29.9	793	1	US-08-015-985-3	Sequence 3, Appli
41	467.5	29.9	802	1	US-08-015-985-1	Sequence 1, Appli
42	465	29.8	263	2	US-08-685-992-5	Sequence 5, Appli
43	465	29.8	263	2	US-09-144-925-5	Sequence 5, Appli
44	464	29.7	1911	1	US-08-448-086B-5	Sequence 5, Appli
45	464	29.7	1911	2	US-08-860-825A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 1563; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 1e-149;



RESULT 3
US/08/821,278A-18
; Sequence 18, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 18
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo Sapien
US/08/821,278A-18

Query Match 85.6%; Score 1438; DB 4; Length 278;
Best Local Similarity 89.3%; Pred. No. 1.4e-127;
Matches 242; Conservative 20; Mismatches 9; Indels 0; Gaps 0;

RESULT 4
US/08/821,278A-19
; Sequence 19, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.

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;    TITLE OF INVENTION:  Protein Tyrosine Phosphatases
;    FILE REFERENCE:  P1010R1
;    CURRENT APPLICATION NUMBER: US/08/821,278A
;    CURRENT FILING DATE:  1997-03-20
;    NUMBER OF SEQ ID NOS:  23
; SEQ ID NO 1:
;    LENGTH: 272
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-08-821-278A-1

  Query Match             65.5%;  Score 1024;  DB 4;  Length 272;
  Best Local Similarity   66.4%;  Pred. No. 8.9e-96;
  Matches  180;  Conservative   46;  Mismatches   45;  Indels    0;  Gaps    0;

Qy         24 FANEFLKLKRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSS 83
Db          1 FARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPFDHSRVKLTLKTPSQDSD 60

Qy         84 YINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYW 143
Db         61 YINANFIKGVYGPKAYVATQGPLANTVIDFWRMVWEYNVVIIVMACREFEMGRKKCERYW 120

Qy        144 AEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSID 203
Db        121 PLYGEDPITFAPFKISCEDEQARTDYFIRTLLLEFQNESRRLYQFHYVNWPDHDVPSSFD 180

Qy        204 PILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIR 263
Db        181 SILDMISLMRKYQEHEDVPICIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQ 240

Qy        264 EMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
Db        241 EMRTQRHSAVQTKEQYELVHRAIAQLFEKQL 271

RESULT 5
US-08-685-992-20
; Sequence 20, Application US/08685992
; Patent No. 5912138
;  GENERAL INFORMATION:
;    APPLICANT:  Tonks, Nicholas
;    APPLICANT:  Flint, Andrew J.
;    TITLE OF INVENTION:  SUBSTRATE TRAPPING PROTEIN
;    TITLE OF INVENTION:  TYROSINE PHOSPHATASES
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02173
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  FastSEQ for Windows Version 2.0b
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/685,992
;      FILING DATE:  25-JUL-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  CSHL96-03
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  781-861-6240
;      TELEFAX:  781-861-9540
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-685-992-20

  Query Match             60.3%;  Score 943;  DB 2;  Length 253;
  Best Local Similarity   66.9%;  Pred. No. 1.3e-87;
  Matches  168;  Conservative   1[illegible];  Mismatches   41;  Indels    2;  Gaps    1;

Qy         44 YPTTVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQ 103
Db          2 YPTATGEKEENVKKNRYKDILPFDHSRVKLTLKTPSQDSDYINANFIKGVYGPKAYVATQ 61

Qy        104 GPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 163
Db         62 GPLANTVIDFWRMVWEYNVVIIVMACREFEMGRKKCERYWPLYGEDPITFAPFKISCEDE 121

Qy        164 KRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPI 223
Db        122 QARTDYFI--RTLLLEFQNESRRLYQFHYVNWPDHDVPSSFDSILDMISLMRKYQEHEDVPI 179

Qy        224 CIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVY 283
Db        180 CIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTKEQYELVH 239

Qy        284 NAVLELFKRQM 294
Db        240 RAIAQLFEKQL 250

RESULT 6
US-09-144-925-20
; Sequence 20, Application US/09144925
; Patent No. 5951979
;  GENERAL INFORMATION:
;    APPLICANT:  Tonks, Nicholas
;    APPLICANT:  Flint, Andrew J.
;    TITLE OF INVENTION:  SUBSTRATE TRAPPING PROTEIN
;    TITLE OF INVENTION:  TYROSINE PHOSPHATASES
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02421-4799
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  FastSEQ for Windows Version 2.0b
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/144,925
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/685,992
;      FILING DATE:  July 25, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  CSHL96-03C
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  781-861-6240
;      TELEFAX:  781-861-9540
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
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[illegible]
      TYPE: [illegible]
      STRANDEDNESS: [illegible]
      [illegible]
    MOLECULE TYPE: peptide
[illegible]

  Query Match [illegible]
  Best Local Similarity [illegible] Pred. No. [illegible]
  Matches [illegible] Mismatches [illegible] Indels [illegible] Gaps [illegible]

Qy   [illegible] VAIFEENLRKNLYKE [illegible] INANFIK [illegible] KAYIA [illegible]
Db   [illegible] KFENVEENLYK [illegible] INANFIK [illegible] KAYVA [illegible]

Qy   [illegible] FWRMIWEY [illegible] VMA [illegible] YWA [illegible] 163
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Qy   164 KRK [illegible] YW [illegible] YQFHYKNWPDHDVP [illegible] LIWDVRCYQEDDSVPI 223
Db   [illegible] YQFHYVNWPDH [illegible] 179

Qy   224 [illegible] TWMLLKEG [illegible] 283
Db   [illegible] YWNLLKA [illegible] 239

Qy   284 NAVLELFKRQM 294

Db   [illegible]


[illegible]
[illegible]
; Sequence [illegible] Application [illegible] /08951260A
; Patent No. [illegible]
; GENERAL INFORMATION:
;   APPLICANT: [illegible]
;   APPLICANT: [illegible]
;   TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE [illegible]
;   TITLE OF INVENTION: AND RELATED PRODUCTS AND METHODS
;   NUMBER OF SEQUENCES: [illegible]
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: [illegible]
;     STREET: [illegible] West [illegible] Street
;     STREET: Suite [illegible]
;     CITY: [illegible]
;     STATE: [illegible]
;     COUNTRY: [illegible]
;     ZIP: [illegible]
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: [illegible] Diskette, 1.44 Mb
;     MEDIUM TYPE: [illegible]
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: IBM [illegible]
;     SOFTWARE: [illegible] for Windows 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/951,260A
;     FILING DATE: [illegible]
;     CLASSIFICATION: [illegible]
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: [illegible]
;     FILING DATE: [illegible]
;     APPLICATION NUMBER: [illegible]/00946
;     FILING DATE: [illegible]
;   ATTORNEY/AGENT INFORMATION:
;     NAME: [illegible]
;     REGISTRATION NUMBER: [illegible]
;     REFERENCE/DOCKET NUMBER: [illegible]/004
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: [illegible]
;     TELEFAX: [illegible] 0449
;     TELEX: [illegible]
; INFORMATION FOR SEQ ID NO: 7:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 453 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-08-951-260A-7

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  Best Local Similarity   48.0%;  Pred. No. 2.8e-68;
  Matches [illegible]; Conservative [illegible]; Mismatches [illegible]; Indels [illegible]; Gaps [illegible];

Qy   [illegible] 61
Db   [illegible] 63

Qy   62 [illegible] INAN [illegible] LLDFWRMIWEYS 121
Db   64 DVVPYDFTRVILSLLQFEGHGDYINANFIRGTDGSQAYIATQGPLPHTLLDFWRLVWEFG 123

Qy   122 V [illegible] VMA [illegible] YWAL [illegible] EVKENS 180
Db   124 IKVILMACQEIENGRRKCERYWAQEKE-PLQAGPFCITLTKETALTSDITLRTLQVTFQK 182

Qy   [illegible] IYQFHYKNW [illegible] LIWDVR [illegible] SAGCGRIGVICAI 240
Db   183 ESRPVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAV 242

Qy   241 DYTWMLLKEGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
Db   243 DYVRQLLLTQTIPPNFSLFEVVLEMRKQRPAAVQTEEQYRFLYHTVAQLFSRTL 296


RESULT 8
US-08-821-278A-2
; Sequence 2, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
;  APPLICANT: Cheng, Jill
;  APPLICANT: Lasky, Laurence A.
;  TITLE OF INVENTION: Protein Tyrosine Phosphatases
;  FILE REFERENCE: P1010R1
;  CURRENT APPLICATION NUMBER: US/08/821,278A
;  CURRENT FILING DATE: 1997-03-2[illegible]
;  NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 2
;   LENGTH: 453
;   TYPE: PRT
;   ORGANISM: Mus Musculus
US-08-821-278A-2

  Query Match             47.2%;  Score 738.5;  DB 4;  Length 453;
  Best Local Similarity   46.9%;  Pred. No. 1.5e-66;
  Matches 137;  Conservative 58;  Mismatches 94;  Indels [illegible];  Gaps [illegible];

Qy   5 [illegible] 63
Db   6 DLVRSPLRQLEARDYREGAIFVREFSR [illegible] KARSVAWKSEGV [illegible] NINKNRYKDV 65

Qy   64 LPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVL 123
Db   66 VAYDEIRVILSLLQEEGHGNYINANFIRGIDGSQAYIATQGPLPHTLLDFWRLVWEFGVK 125

Qy   124 [illegible] VMA [illegible] YWAL [illegible] EVKENSEI 182
Db   126 VILMACQ [illegible] WA [illegible] 184

Qy   183 RTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSA [illegible] GRTGVICAIDY 242
Db   185 RSVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSA [illegible] GRTGVLCAVDY 244

Qy   243 TWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
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Db        249 VE[illegible]TQIIPPNPSITQVVLEMRKQRPAAVQIFFQYRFLYHTVA[illegible] 296

RESULT 9
US-08-854-585-2
; Sequence 2, Application US/08854585
; Patent No. 611414[illegible]
;  GENERAL INFORMATION:
;    APPLICANT:  Tonks, Nicholas K. and  stman, Arne
;    TITLE OF INVENTION:  Density Enhanced Protein Tyrosine Phosphatase
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  233 South Wacker Drive, Suite 6300
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/854,585
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/237,940
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Borun, Michael F.
;      REGISTRATION NUMBER:  25,447
;      REFERENCE/DOCKET NUMBER:  27866/31954
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1337 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-854-585-2

  Query Match             32.1%;  Score 501.5;  DB 3;  Length 1337;
  Best Local Similarity   38.9%;  Pred. No. 6.9e-42;
  Matches  114;  Conservative   50;  Mismatches  108;  Indels   21;  Gaps    8;

Qy         15 QSKKITKEELANEFLKLKRQST-      KYKADK--IYPTTVAEKPKNIKKNRYKDILP 65
Db       1017 KSKLIRVENFEAYFKKQQADSNCGFAEEYEDLKLVGISQPKYAAELAENRGKNRYNNVLP 1076

Qy         66 YDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLII 125
Db       1077 YDISRVKLSVQTHSTDDYINANYMPGYHSKKDFIATQGPLPNTLKDFWRMVWEKNVYAI 1135

Qy        126 VMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVK  FNSETR 183
Db       1136 IMLTKCVEQGRTKCEEYW--PSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 1193

Qy        184 TIYQFHYKNWPDHDVPSSIDPILELIWDVRCY--QEDDSVPICIHCSAGCGRTGVICAID 241
Db       1194 PLRQFHFTSWPDHGVPDTTDLLINFRYLVRDYMKQSPPESPILVHCSAGVGRTGTFIAID 1253

Qy        242 YTWMLLKDGIIPEN-FSVFSLIREMRTQRPSLVQTQEQYEFVYNAVLELFKRQ 293
Db       1254 RLIYQIEN--ENIVDVYGIVYDLRMHRPLMVQTEDQYVFLNQCVLDIVRSQ 1302

RESULT 10
PCT-US95-05512-2
; Sequence 2, Application PC/TUS9505512
;  GENERAL INFORMATION:
;    APPLICANT:  Tonks, Nicholas K. and  stman, Arne
;    TITLE OF INVENTION:  Density Enhanced Protein Tyrosine
;    TITLE OF INVENTION:  Phosphatase
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, Suite 6300
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05512
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Borun, Michael F.
;      REGISTRATION NUMBER:  25,447
;      REFERENCE/DOCKET NUMBER:  27866/31954
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1337 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US95-05512-2

  Query Match             32.1%;  Score 501.5;  DB 5;  Length 1337;
  Best Local Similarity   38.9%;  Pred. No. 6.9e-42;
  Matches  114;  Conservative   50;  Mismatches  108;  Indels   21;  Gaps    8;

Qy         15 QSKKITKEELANEFLKLKRQST-      KYKADK--IYPTTVAEKPKNIKKNRYKDILP 65
Db       1017 KSKLIRVENFEAYFKKQQADSNCGFAEEYEDLKLVGISQPKYAAELAENRGKNRYNNVLP 1076

Qy         66 YDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLII 125
Db       1077 YDISRVKLSVQTHSTDDYINANYMPGYHSKKDFIATQGPLPNTLKDFWRMVWEKNVYAI 1135

Qy        126 VMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVK  FNSETR 183
Db       1136 IMLTKCVEQGRTKCEEYW--PSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 1193

Qy        184 TIYQFHYKNWPDHDVPSSIDPILELIWDVRCY--QEDDSVPICIHCSAGCGRTGVICAID 241
Db       1194 PLRQFHFTSWPDHGVPDTTDLLINFRYLVRDYMKQSPPESPILVHCSAGVGRTGTFIAID 1253

Qy        242 YTWMLLKDGIIPEN-FSVFSLIREMRTQRPSLVQTQEQYEFVYNAVLELFKRQ 293
Db       1254 RLIYQIEN--ENIVDVYGIVYDLRMHRPLMVQTEDQYVFLNQCVLDIVRSQ 1302

RESULT 11
US-08-449-644-2
; Sequence 2, Application US/08449644
; Patent No. 5856162
;  GENERAL INFORMATION:
;    APPLICANT:  Schlessinger, Joseph
;    APPLICANT:  Sap, Jan M.
;    APPLICANT:  Ullrich, Axel
;    APPLICANT:  Vogel, Wolfgang
;    APPLICANT:  Fuchs, Miriam
;    TITLE OF INVENTION:  NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE
;    TITLE OF INVENTION:  PHOSPHATASE-KAPPA
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;    NUMBER OF SEQUENCES: [illegible]
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: PENNIE & EDMONDS
;      STREET: [illegible] Avenue of the Americas
;      CITY: New York
;      STATE: New York
;      COUNTRY: U.S.A.
;      ZIP: [illegible]
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/449,[illegible]
;      FILING DATE: 24-MAY-[illegible]
;      CLASSIFICATION: [illegible]
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US 08/087,244
;      FILING DATE: [illegible]
;    ATTORNEY/AGENT INFORMATION:
;      NAME: [illegible] Laura A.
;      REGISTRATION NUMBER: 30,742
;      REFERENCE/DOCKET NUMBER: [illegible] 042
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: [illegible]
;      TELEFAX: 212 [illegible]-6864/9741
;      TELEX: [illegible] PENNIE
;  INFORMATION FOR SEQ ID NO: [illegible]
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: [illegible] amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-449-[illegible]

  Query Match             [illegible]%;  Score 496.5;  DB 2;  Length 14[illegible];
  Best Local Similarity   38.4%;  Pred. No. 2.4e-41;
  Matches  104;  Conservative   54;  Mismatches   92;  Indels   21;  Gaps    6;

Qy         21 [illegible]KYPEIVAEKPKNIKKNRYKDILPYDYSRVELSLITSDE 80
Db        886 KEEYEQFF    EQQSAGW          DVAKKDQNRAKNRYGNIIAYDHSRVILQPVEDDP 936

Qy         81 [illegible]YINAN[illegible]IVMA[illegible]MEYEMGKKKCE 140
Db        937 SSDYINANYIDGYQRPSHYIATQGPVHEIVYDFWRMIWQEQSACIVMVTNLVEVGRVKCY 996

Qy        141 KYWA[illegible]KNWPDHDV 198
Db        997 KYWPDDTEV---YGDFKVTCVEMEPLAEYVVRTFTLERRGYNEIREVKQFHFTGWPDHGV 1053

Qy        199 [illegible]IHCSAG[illegible]GRTGVICAIDYTW MLLKDGIIPENFS 257
Db       1054 [illegible]IVVHCSAGAGRTGCYIVIDIMLDMAEREGVV-  D 1109

Qy        258 [illegible]YELVYNAVLE 288
Db       1110 IYNCVKALRSRRINMVQTEEQYIFIHDAILE 1140


RESULT [illegible]
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; Sequence [illegible], Application US/08087244A
; Patent No. [illegible]
; GENERAL INFORMATION:
;    APPLICANT: [illegible]
;    APPLICANT: [illegible] M.
;    APPLICANT: [illegible] Axel
;    APPLICANT: [illegible] William
;    APPLICANT: [illegible]
;    TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE
;    TITLE OF INVENTION: PHOSPHATASE-KAPPA
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;    NUMBER OF SEQUENCES: 11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: PENNIE & EDMONDS
;      STREET: 1155 Avenue of the Americas
;      CITY: New York
;      STATE: New York
;      COUNTRY: U.S.A.
;      ZIP: 10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/087,244A
;      FILING DATE: 01-JUL-1993
;      CLASSIFICATION: 435
;    ATTORNEY/AGENT INFORMATION:
;      NAME: Coruzzi, Laura A.
;      REGISTRATION NUMBER: 30,742
;      REFERENCE/DOCKET NUMBER: 7683-042
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 212-790-9090
;      TELEFAX: 212-869-8864/9741
;      TELEX: 66141 PENNIE
;  INFORMATION FOR SEQ ID NO: 2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 1439 amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-087-244A-2

  Query Match             31.8%;  Score 496.5;  DB 2;  Length 1439;
  Best Local Similarity   38.4%;  Pred. No. 2.4e-41;
  Matches  104;  Conservative   54;  Mismatches   92;  Indels   21;  Gaps    6;

Qy         21 [illegible]TVAEKP[illegible]KKNRYK[illegible]SLITSDE 80
Db        886 KEEYEQFF    EQQSAGW          DVAKKDQNRAKNRYGNIIAYDHSRVILQPVEDDP 936

Qy         81 DSSYINANF[illegible]WKMIWEYSV[illegible]IVMACMEYEMGKKKCE 140
Db        937 SSDYINANYIDGYQRPSHYIATQGPVHEIVYDFWRMIWQEQSACIVMVTNLVEVGRVKCY 996

Qy        141 KYWADE[illegible]KNW[illegible]V 198
Db        997 KYWPDDTEV---YGDFKVTCVEMEPLAEYVVRTFTLERRGYNEIREVKQFHFTGWPDHGV 1053

Qy        199 PSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW MLLKDGIIPENFS 257
Db       1054 PYHATGLLSFIRRVKLSNPPSAGPIVVHCSAGAGRTGCYIVIDIMLDMAEREGVV-  D 1109

Qy        258 VFSLIREMRTQRPSLVQTQEQYELVYNAVLE 288
Db       1110 IYNCVKALRSRRINMVQTEEQYIFIHDAILE 1140


RESULT 13
US-08-685-992-22
; Sequence 22, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
;    APPLICANT: Tonks, Nicholas
;    APPLICANT: Flint, Andrew J.
;    TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
;    TITLE OF INVENTION: TYROSINE PHOSPHATASES
;    NUMBER OF SEQUENCES: 36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;      STREET: Two Militia Drive
;      CITY: Lexington
;      STATE: MA
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;       COUNTRY:  USA
;       ZIP:  02173
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  Windows 95
;       SOFTWARE:  FastSEQ for Windows Version 2.0b
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/685,992
;       FILING DATE:  25-JUL-1996
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:
;       FILING DATE:
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Granahan, Patricia
;       REGISTRATION NUMBER:  32,227
;       REFERENCE/DOCKET NUMBER:  CSHL96-03
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  781-861-6240
;       TELEFAX:  781-861-9540
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  22:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  277 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-685-992-22

  Query Match             31.7%;  Score 495;  DB 2;  Length 277;
  Best Local Similarity   37.9%;  Pred. No. 3.4e-42;
  Matches  106;  Conservative   41;  Mismatches   91;  Indels   42;  Gaps    7;

Qy         46 IIVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGP 105
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Db          4 TSEGDKKHNTSKNRYTNILPVNHIRVQLKKIQDKEGSDYINANYIDGAY-PKQFICTQGP 62

Qy        106 LSTTLLDFWRMIWEYSVLIIVMACMEYEMGKK---KCERYWAEP-------GEMQLEF 153
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Db         63 LPNTIADFWEMVWENECFIIVMLSELSEQGRPKCDRYWPEQTGCEQFSIYGNGNEVF 122

Qy        154 GPFSVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVR 213
              : |        :   :    |  :::  |    ||| |  |:  |:  ||||:::      |    :|:   :
Db        123 GTYSVELVEVIQCREIITRNIRLTFEGETRDITQYQYEGWPDHNIPDHTQPFRQLLHSIT 182

Qy        214 CYQ------EDDSVPICIHCSAGCGRTGVICA-------------IDYTWMLLKDGIIP 253
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Db        183 NRQNQTIPSSDKNVPIIVHCSAGVGRTGTFCTAVIMMKKLDHYIPKQLIYNSFI----- 235

Qy        254 PNPSVPSLIREMRTQRPSLVQTQEQYELVYNAVL-ELFKR 292
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Db        236 IPNLPSIVLKLREQRPGMVQQLEQYLFCYKTILDEIYHR 274


RESULT 14
US-09-144-925-22
; Sequence 22, Application US/09144925
; Patent No. 5951979
;   GENERAL INFORMATION:
;     APPLICANT:  Tonks, Nicholas
;     APPLICANT:  Flint, Andrew J.
;     TITLE OF INVENTION:  SUBSTRATE TRAPPING PROTEIN
;     TITLE OF INVENTION:  TYROSINE PHOSPHATASES
;     NUMBER OF SEQUENCES:  36
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  HAMILTON, BROOK, SMITH & REYNOLDS, P.C
;       STREET:  Two Militia Drive
;       CITY:  Lexington
;       STATE:  MA
;       COUNTRY:  USA
;       ZIP:  02421-4799
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  Windows 95
;       SOFTWARE:  FastSEQ for Windows Version 2.0b
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/144,925
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/685,992
;       FILING DATE:  July 25, 1996
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Granahan, Patricia
;       REGISTRATION NUMBER:  32,227
;       REFERENCE/DOCKET NUMBER:  CSHL96-03Z
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  781-861-6240
;       TELEFAX:  781-861-9540
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  22:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  277 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-09-144-925-22

  Query Match             31.7%;  Score 495;  DB 2;  Length 277;
  Best Local Similarity   37.9%;  Pred. No. 3.4e-42;
  Matches  106;  Conservative   41;  Mismatches   91;  Indels   42;  Gaps    7;

Qy         46 IIVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGP 105
              |:  :|   |   ||||  :|||  :::||:|   |      | |  ||||||:| | |  || :|  ||||
Db          4 TSEGDKKHNTSKNRYTNILPVNHIRVQLKKIQDKEGSDYINANYIDGAY-PKQFICTQGP 62

Qy        106 LSTTLLDFWRMIWEYSVLIIVMACMEYEMGKK---KCERYWAEP-------GEMQLEF 153
              |   |: |||||:||     ||||      | |   :        ||:||| |            |      |
Db         63 LPNTIADFWEMVWENECFIIVMLSELSEQGRPKCDRYWPEQTGCEQFSIYGNGNEVF 122

Qy        154 GPFSVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVR 213
              : |        :   :    |  :::  |    ||| |  |:  |:  ||||:::      |    :|:   :
Db        123 GTYSVELVEVIQCREIITRNIRLTFEGETRDITQYQYEGWPDHNIPDHTQPFRQLLHSIT 182

Qy        214 CYQ------EDDSVPICIHCSAGCGRTGVICA-------------IDYTWMLLKDGIIP 253
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Db        183 NRQNQTIPSSDKNVPIIVHCSAGVGRTGTFCTAVIMMKKLDHYIPKQLIYNSFI----- 235

Qy        254 PNPSVPSLIREMRTQRPSLVQTQEQYELVYNAVL-ELFKR 292
               :|::|:::  :::  |||  :||    |||      |    :|  |::  |
Db        236 IPNLPSIVLKLREQRPGMVQQLEQYLFCYKTILDEIYHR 274


RESULT 15
US-08-036-210-12
; Sequence 12, Application US/08036210
; Patent No. 5585233
;   GENERAL INFORMATION:
;     APPLICANT:  Moller, Niels P.H.
;     APPLICANT:  Moller, Karin B.
;     APPLICANT:  Ullrich, Axel
;     TITLE OF INVENTION:  PTP 35I:  A NOVEL PROTEIN TYROSINE
;     TITLE OF INVENTION:  PHOSPHATASE
;     NUMBER OF SEQUENCES:  45
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  PENNIE & EDMONDS
;       STREET:  1155 Avenue of the Americas
;       CITY:  New York
;       STATE:  New York
;       COUNTRY:  U.S.A.
;       ZIP:  10036-2711
;     COMPUTER READABLE FORM:
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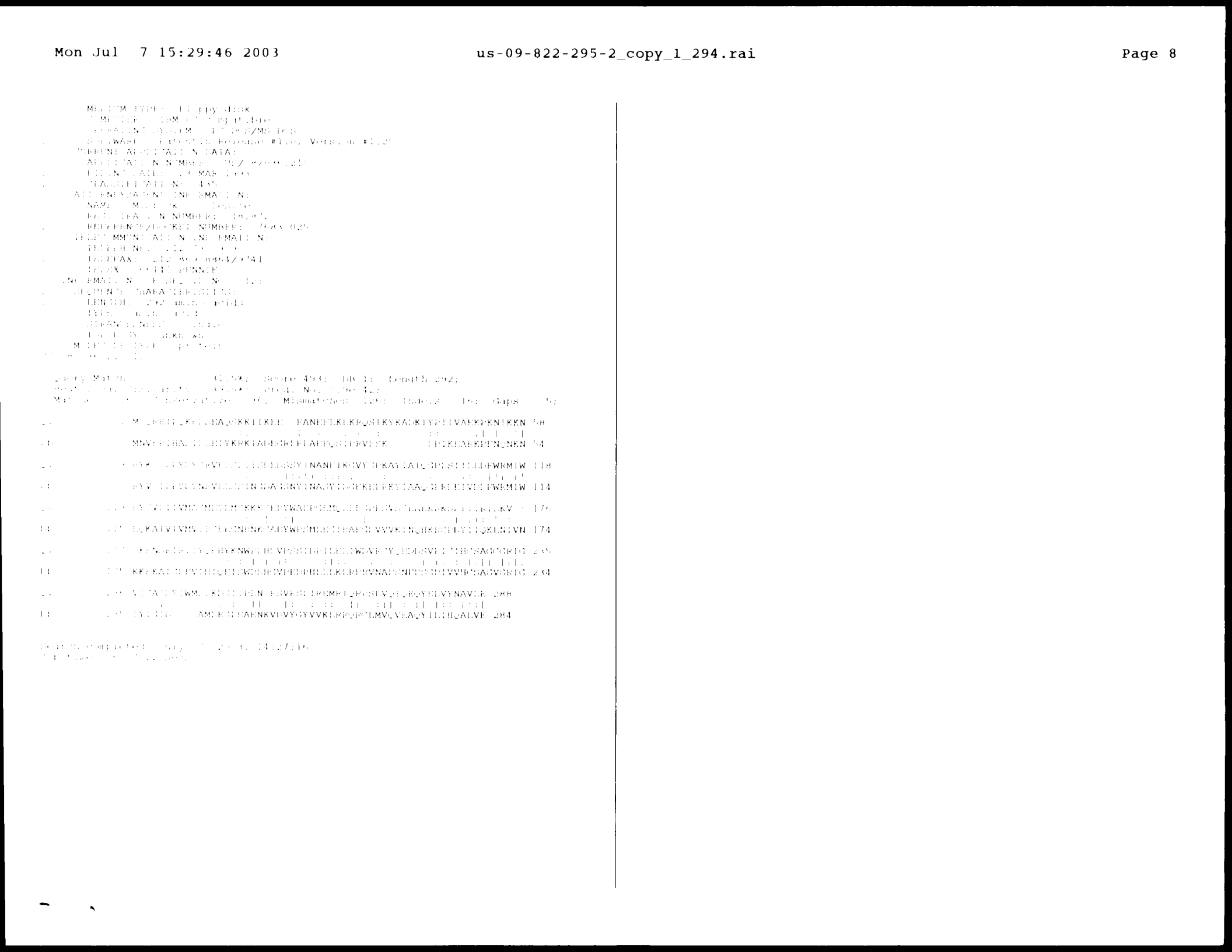

GenCore version 5.1.6
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OM protein - protein search, using sw model

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(without alignments)
2480.711 Million cell updates/sec

Title: US-09-822-295-2
Perfect score: 4230
Sequence: 1 MDQREILQKFLDEAQSKKIT........FANFFSKPKGFRNPPPTWNI 807

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440863 seqs, 114992915 residues

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1717	40.6	331	9	US-10-102-806-606	Sequence 606, App
4	948.5	22.4	312	10	US-09-788-626-21	Sequence 21, Appl
5	758.5	17.9	448	9	US-10-087-993-32	Sequence 32, Appl
6	758.5	17.9	453	9	US-10-243-687-7	Sequence 7, Appli
7	727.5	17.2	458	9	US-10-087-993-36	Sequence 36, Appl
8	526.5	12.4	853	9	US-10-072-036-119	Sequence 119, App
9	525.5	12.4	264	9	US-10-245-539-6	Sequence 6, Appli
10	502.5	11.9	595	10	US-09-920-021A-1	Sequence 1, Appli
11	502.5	11.9	843	9	US-10-072-036-117	Sequence 117, App
12	500.5	11.8	1453	9	US-10-176-847-22	Sequence 22, Appl
13	500.5	11.8	1453	9	US-10-205-823-343	Sequence 343, App
14	495	11.7	341	10	US-09-788-626-23	Sequence 23, Appl
15	483.5	11.4	593	10	US-09-920-021A-3	Sequence 3, Appli
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17	481.5	11.4	597	9	US-10-038-010-22	Sequence 22, Appl
18	477	11.3	319	10	US-09-788-626-6	Sequence 6, Appli
19	477	11.3	2338	12	US-10-000-954-2	Sequence 2, Appli
20	475	11.2	305	10	US-09-788-626-9	Sequence 9, Appl
21	474.5	11.2	316	10	US-09-788-626-5	Sequence 5, Appli
22	474.5	11.2	316	10	US-09-788-626-26	Sequence 26, Appl
23	474	11.2	317	10	US-09-788-626-4	Sequence 4, Appli
24	472	11.2	2353	9	US-09-983-000A-4	Sequence 4, Appli
25	470.5	11.1	442	10	US-09-925-380-950	Sequence 950, App
26	470	11.1	1948	9	US-09-808-602-55	Sequence 55, Appl
27	470	11.1	1948	9	US-09-800-198-45	Sequence 45, Appl
28	465.5	11.0	294	10	US-09-788-626-27	Sequence 27, Appl
29	464	11.0	1502	9	US-09-808-602-54	Sequence 54, Appl
30	464	11.0	1502	9	US-09-800-198-44	Sequence 44, Appl
31	462.5	10.9	1093	9	US-10-245-539-4	Sequence 4, Appli
32	462.5	10.9	1118	9	US-10-245-539-2	Sequence 2, Appli
33	462.5	10.9	1118	9	US-10-245-539-8	Sequence 8, Appli
34	461	10.9	248	9	US-10-293-231-10	Sequence 10, Appl
35	461	10.9	248	10	US-09-848-294-10	Sequence 10, Appl
36	461	10.9	309	10	US-09-788-626-12	Sequence 12, Appl
37	458	10.8	325	10	US-09-788-626-13	Sequence 13, Appl
38	457.5	10.8	2301	9	US-09-822-871-4	Sequence 4, Appli
39	454.5	10.7	281	10	US-09-788-626-28	Sequence 28, Appl
40	454	10.7	291	10	US-09-788-626-22	Sequence 22, Appl
41	451.5	10.7	2291	9	US-09-822-871-2	Sequence 2, Appli
42	447	10.6	313	10	US-09-788-626-17	Sequence 17, Appl
43	445	10.5	322	10	US-09-788-626-14	Sequence 14, Appl
44	443	10.5	313	10	US-09-788-626-7	Sequence 7, Appli
45	443	10.5	435	10	US-09-986-240-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J
; REGISTRATION NUMBER: 32 327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids

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          TYPE: amino acid
          STRANDEDNESS: single
          TOPOLOGY: linear
     MOLECULE TYPE: peptide
     SEQUENCE DESCRIPTION: SEQ ID NO: [illegible]
[illegible]

Query Match             [illegible]%;  Score 4230;  DB 10;  Length 807;
Best Local Similarity   [illegible]%;  Pred. No. [illegible];
Matches [illegible];  Conservative [illegible];  Mismatches [illegible];  Indels [illegible];  Gaps [illegible];

Qy      1 MD[illegible]EFEAQSKK[illegible]KEEEANE[illegible]VAEKPKNIKKNRY 60
Db      1 MD[illegible]EAQSKK[illegible]KEEEANEFLKLKEQSIKYKA[illegible]VAEKPKNIKKNRY 60

Qy     61 K[illegible]YSRVELSLLTSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120
Db     61 K[illegible]YSRVELSLLTSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120

Qy    121 [illegible]VMACMEYEMGKKKCERYWAEPGEMQ[illegible]V[illegible]EAEKEK[illegible]LKVKFNE 180
Db    121 [illegible]VMACMEYEMGKKKCERYWAEPGEMQ[illegible]EAEKEK[illegible]LKVKFNS 180

Qy    181 E[illegible]YQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db    181 E[illegible]YQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240

Qy    241 [illegible]WML[illegible]KD[illegible]PENF[illegible]REMR[illegible]VY[illegible]NAV[illegible]MDVIE[illegible] 300
Db    241 [illegible]WML[illegible]KD[illegible]PENF[illegible]REMRTQR[illegible]VYNAV[illegible]MDVIEDK 300

Qy    301 HGTIES[illegible]AKH[illegible]PEKNH[illegible]QA[illegible]KAAEMMNQ[illegible]KMEIKESSSFDFRISE 360
Db    301 HGTIESQAKH[illegible]PEKNHIQADSYSPNLPKSTTKAAKMMNQQRTKMEIKESSSFDFRISE 360

Qy    361 [illegible]AKE[illegible]VI[illegible]AK[illegible]N[illegible]DANA[illegible]MEW[illegible]KA[illegible]V[illegible]Q[illegible] 420
Db    361 [illegible]AKE[illegible]VI[illegible]AK[illegible]FLEELNYSFDENA[illegible]IMEW[illegible]KA[illegible]V[illegible]FH[illegible] 420

Qy    421 [illegible]NGKEVNAA[illegible]RYENGKVP[illegible]IPKSIPEEL[illegible]KEVDSKENFSYLESQPHDSC 480
Db    421 LEE[illegible]NGKEVNAA[illegible]RYENGKVPTIRIKSIPEELIQQPETKEVDSKENFSYLESQPHDSC 480

Qy    481 FV[illegible]ML[illegible]VHHV[illegible]NY[illegible]YI[illegible]KHL[illegible]ENA[illegible]NVKHH[illegible]VENPYFSSW 540
Db    481 FV[illegible]MLA[illegible]VHHV[illegible]NY[illegible]YI[illegible]KHL[illegible]ENA[illegible]NVKHH[illegible]VY[illegible]VENPY[illegible]W 540

Qy    541 [illegible]KM[illegible]PEK[illegible]VPPSLLP[illegible]SYYNSH[illegible]SLSLNSFINISSLLNQES 600
Db    541 [illegible]KM[illegible]PEKQ[illegible]VPPSLLP[illegible]YYNSH[illegible]NSFINISSLLNQES 600

Qy    601 AV[illegible]A[illegible]PVE[illegible]VVEEA[illegible]NVPK[illegible]AVKVK[illegible]SLEWGGIS 660
Db    601 AVLAIA[illegible]PVKIPESFIVVEEAG[illegible]SPNVPK[illegible]SAVKVKIGISLEWGGIS 660

Qy    661 [illegible]KEE[illegible]VILPFSKGVKLEGPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIET 720
Db    661 [illegible]KEE[illegible]VILPFSKSVKLEGPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIET 720

Qy    721 Y[illegible]YE[illegible]MEN[illegible]SKQ[illegible]KIPGK[illegible]KILPNMKK[illegible]NKPAESVQGNNS 780
Db    721 Y[illegible]SYE[illegible]MEN[illegible]SSKQ[illegible]KIPGKSFIESK[illegible]KILPNMKK[illegible]NKPAESVQGNNS 780

Qy    781 [illegible]NE[illegible]ANE[illegible]KEK[illegible]NPPPIWNI 807
Db    781 [illegible]NE[illegible]ANE[illegible]KEK[illegible]NPPPIWNI 8[illegible]

[illegible]
[illegible]
[illegible] APPLICATION [illegible]
[illegible] No. [illegible] IAI
GENERAL INFORMATION:
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;       APPLICANT: Bahija Jallal
;                  Gregory D. Plowman
;       TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                           PTP04 RELATED DISORDERS
;       NUMBER OF SEQUENCES: 18
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Lyon & Lyon
;            STREET: 633 West Fifth Street
;                    Suite 4700
;            CITY: Los Angeles
;            STATE: California
;            COUNTRY: U.S.A.
;            ZIP: 90071-2066
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                         storage
;            COMPUTER: IBM Compatible
;            OPERATING SYSTEM: IBM P.C. DOS 5.0
;            SOFTWARE: FastSEQ for Windows 2.0
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/822,295
;            FILING DATE: 02-Apr-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/081,345
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Warburg, Richard J.
;            REGISTRATION NUMBER: 32,327
;            REFERENCE/DOCKET NUMBER: [illegible]4,253
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (213) 489-1600
;            TELEFAX: (213) 955-0440
;            TELEX: 67-3510
;    INFORMATION FOR SEQ ID NO: 18:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 802 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

  Query Match             68.7%;  Score 2907.5;  DB 10;  Length 802;
  Best Local Similarity   70.7%;  Pred. No. 1.5e-182;
  Matches  573;  Conservative   76;  Mismatches  149;  Indels   13;  Gaps    6;

Qy          1 MDQRFT[illegible]QEFLDEAQSKK[illegible]KEEEANEFLKLKEQSIKYKADETYPTTVAEKPKNIKKNRY 60
Db          1 M[illegible]AQSKK[illegible]N[illegible]FAEFLKLKEQ[illegible]YKA[illegible]VAQKPKNIKKNRY 60

Qy         61 KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120
Db         61 KDILPYDHSLVELSLLTSDEDSSYINASFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120

Qy        121 SVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKKKSDYIIRTLKVKFNS 180
Db        121 RILVIVMACMEFEMGKKKCERYWAEPGEIQLQFGPFSISCEAEKKKSDYKIRTLKAKFNN 180

Qy        181 ETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db        181 ETRTIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQEDDCVPICIHCSAGCGRTGVICAV 240

Qy        241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMDVIRDK 300
Db        241 DYTWMLLKDGIIPKNFSVFNLIQEMRTQRPSLVQTQEQYELVYSAVLELFKRHMDVISDN 300

Qy        301 HSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMNQ---QRTKMEIKESSSFDFR 357
Db        301 HLGREIQAQCSIPEQSLIVEADSCPLDLPKNAMRDVKTINQHSKQGAEAESTGGSSTGLR 360

Qy        358 TSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLDL 417
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Db    361 [illegible]CNNKAVITENCQAFA[illegible]QKYQSLDF 420

Qy    418 [illegible]ITETESTPFELIQQRETKEVD[illegible]KENFSYLESQPH 477
Db    421 GSMLFGSCFSALFINIADRYHNSKGPVKRTKSTPFELIQQRKTNDLAVGDGFSCLESQLH 480

Qy    478 DSCFV-EMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSSALGVYSYIPLVENPY 536
Db    481 EHYSLRELQVQRVAHVSSEELNYSLP -    GACDASCVPRHSPGALRVHLYTSLAEDPY 535

Qy    537 FSSWPPSGISSKMSLDLPEKQDGTVFPSSLLPTSSTSLFSYYNSHDSLSLNSPTNISSLL 596
Db    536 FSSSPPNSADSKMSPDLPEKQDGATSPGALLPASSTTSFFYSNPHDSLVMNTLTSFSPPL 595

Qy    597 NQESAVLATAPRIDDEIPPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEW 656
Db    596 NQEIAVEAPSRRIDDSIPPPLPERTPESFIVVEEAGEPSPRVTESL--PLVVTFGASPEC 653

Qy    657 [illegible]SEPKKF[illegible]SVI[illegible]SKSVKLRSPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQ 716
Db    654 [illegible]LESPKSLEHQD GSPPPPLPEETLESFFLADEDCIQAQ 711

Qy    717 SIE[illegible]NMEKC[illegible]NEPAESVQ 776
Db    712 [illegible]LENMEK[illegible]SSCPSKPTEPVQ 771

Qy    777 SNN[illegible]IPPNPPPTWNI 807
Db    772 [illegible]PPNPPSAWNM 802
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RESULT 3
US-10-102-806-606
; Sequence 606, Application US/10102806
; Publication No. US20030054421A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103P1C1
; CURRENT APPLICATION NUMBER: US/10/102,806
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/925,298
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05881
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 606
;   LENGTH: [illegible]
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: ([illegible])
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: ([illegible])
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-102-806-606

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  Query Match             [illegible]%;  Score 1717;  DB 9;  Length [illegible];
  Best Local Similarity   99.4%;  Pred. No. 5.5e-105;
  Matches [illegible];  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy    477 [illegible]NYSLPY[illegible]SKHQIRNASNVKHHDSSALGVYSYIPLVENPY 536
Db      1 HDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSSALGVYSYIPLVENPY 60

Qy    537 [illegible]SKMSLDLPEKQDGTVFPSS[illegible]LPTSSTSLFSYYNSHDSLSLNSPTNISSLL 596

Db     61 FSSWPPSGTSSKMSLDLPEKQDGTVFPSS[illegible]YYNSHD[illegible]NISSLL 120

Qy    597 NQESAVLATAPRIDDEIPPPLPV[illegible]NVPK[illegible] 656
Db    121 NQESAVLATAPRIDDEIPPPLPV[illegible]VKVK[illegible]EW 180

Qy    657 GGTSEPKK[illegible]ADEDCMQAQ 716
Db    181 GGTSEPKKFDDSVILRPSKSVKLRSPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQ 240

Qy    717 SIETYSTSYPDTMENSTSSKQTLKTPGKSFTRSKSLKILRNMKK[illegible]NEPAESVQ 776
Db    241 SIETYSTSYPDTMENSTSSKQTLKTPGKSF[illegible]KILRNMKKX[illegible]NSCPPNKPAESVQ 300

Qy    777 SNNSSSFLNFGFANRFSKPKGPRNPPPTWNI 807
Db    301 SNNSSSFLNFGFANRFSKPKGPRNPPPTWNI 331
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RESULT 4
US-09-788-626-21
; Sequence 21, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
;   LENGTH: 312
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-788-626-21

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  Query Match             22.4%;  Score 948.5;  DB 10;  Length 312;
  Best Local Similarity   54.6%;  Pred. No. 1.4e-54;
  Matches  183;  Conservative   47;  Mismatches   56;  Indels   49;  Gaps    5;

Qy     44 YPTTVAEKPKNIKKNRYKDILPY[illegible]NANF[illegible]KCVYCPKAYIATQ 103
Db      2 YPTATGEKEENVKKNRYKDILP[illegible]NANF[illegible]KGVY[illegible]PKAYVATQ 61

Qy    104 CPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 163
Db     62 CPLANTVIDFWRMVWEYNVVIIVMACREFEMGRKKCERYWPLYGEDPI[illegible] 121

Qy    164 KRKSDYIIRTLKVKFN[illegible] 223
Db    122 QAETDYPI [illegible]MRKYQEHEDVPI 179

Qy    224 CIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYE[illegible]VY 283
Db    180 [illegible] 239

Qy    284 NAVLELIKRQMDVI[illegible]KAAK 337
Db    240 RAIAQLFEKQLQ----- ---- ---- --- [illegible]YAIDYTWNL  -LKAGKIPEEFN 272

Qy    338    MMNCQRTKMFIKESSSPDRRISPISAKEELVL 369
Db    273 VPNLIQEMRTQ-----------RHSAVQIKEQYEL 296
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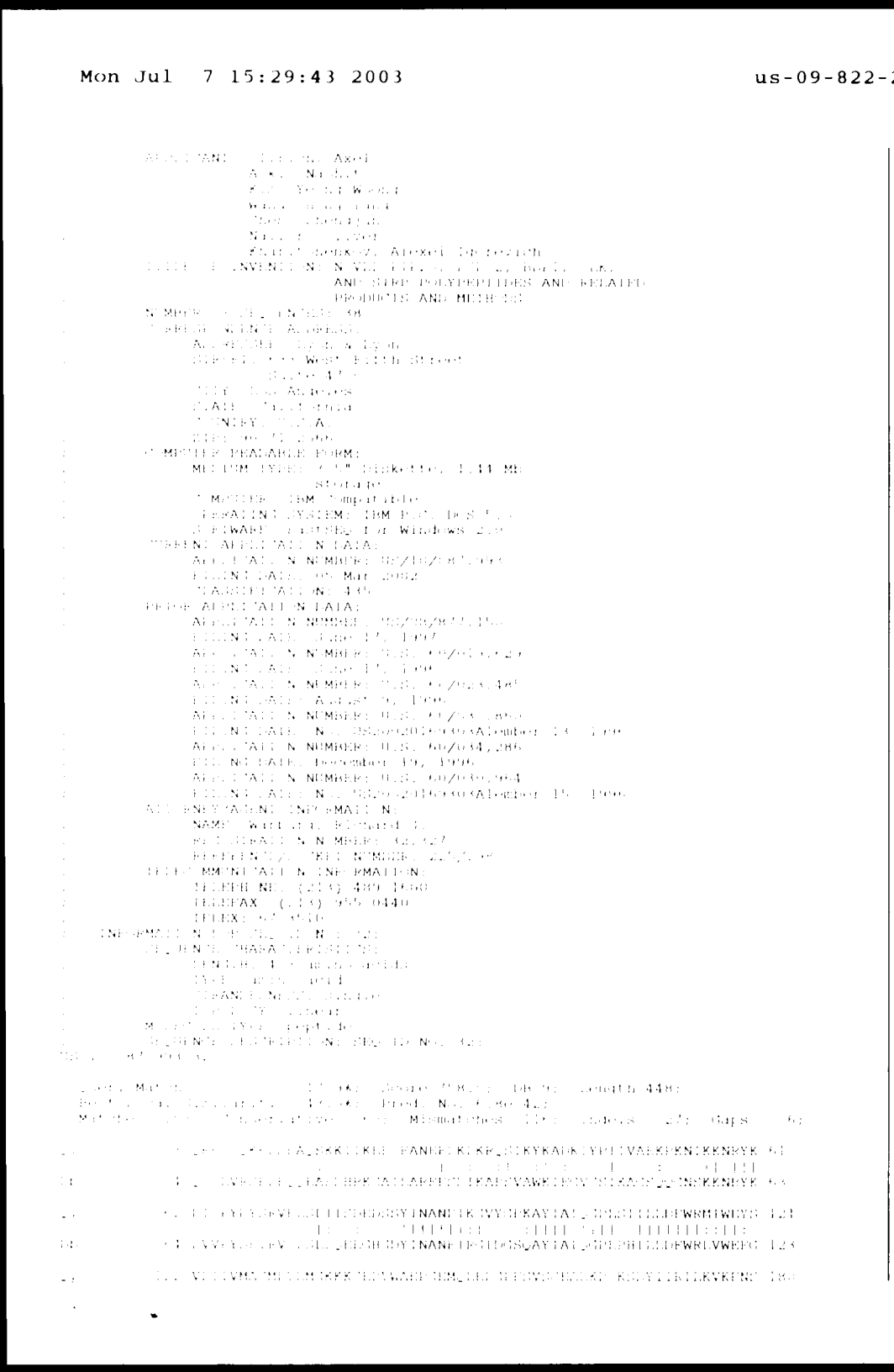
RESULT 5
US-10-087-993-32
; Sequence 32, Application US/10087993
; Patent No. US20020169303A1
;   GENERAL INFORMATION:



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Matches 155; Conservative 60; Mismatches 116; Indels 27; Gaps 6;

Qy 8 QKFILQKFIDFAQSKEEIKEE-FANFFLKIKEQSIKYKADKIYPTVAEKQKNIKKNRYK 61
Db 4 QSDLVRSFLDQSPARDHKKAILAREFSDIKAPSVAWKTEGVCSTKACSQQGNFKKNRYK 63

Qy 62 DILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYS 121
Db 64 DVVPYDETRVILSLLQEEGHGDYINANFIRGTDGSQAYIATQGPLPHTLLDFWRLVWEFG 123

Qy 122 VLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKR KSDYIIRTLKVKFNS 180
Db 124 IKVILMACREIENGRKRCERYWAQEQE PLQAGPFCITLIKETALTNDTILRTLQVTFQK 182

Qy 181 EIRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db 183 ESRPVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAV 242

Qy 241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMD----- 295
Db 243 DYVRQLLLTQTIPPNFSLFEVVLEMRKQRPAAVQTEEQYRFLYHTVAQLFSRTLQNNSPL 302

Qy 296 -------VIRDKHSGTESQAKHCIPEKNHTLQADSYS------PNLPKSTTKA 335
Db 303 YQNLKENHAPICKSQSLSRTSSA   LEATSKEIGGVLKSISVPGPPILPMADTYA 355
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RESULT 7
US-10-087-993-36
; Sequence 36, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yeong Woong
; Wang, Hong Yang
; Chen, Zhengjun
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK
; AND SIRP POLYPEPTIDES AND RELATED
; PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/087,993
; FILING DATE: 05-Mar-2002
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/877,50
; FILING DATE: June 17, 1997
; APPLICATION NUMBER: U.S. 60/019,629
; FILING DATE: June 17, 1996
; APPLICATION NUMBER: U.S. 60/023,485
; FILING DATE: August 9, 1996
; APPLICATION NUMBER: U.S. 60/030,860
; FILING DATE: No. US20020169303Alember 13, 1996
; APPLICATION NUMBER: U.S. 60/034,286
; FILING DATE: December 19, 1996
; APPLICATION NUMBER: U.S. 60/040,964
; FILING DATE: No. US20020169303Alember 15, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/298
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 458 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-087-993-36

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Query Match 17.2%; Score 727.5; DB 3; Length 458;
Best Local Similarity 46.9%; Pred. No. 7.6e-40;
Matches 136; Conservative 56; Mismatches 93; Indels 5; Gaps 3;

Qy 25 ANEFLKLKRQSTKYKADKTYPTTVAEKPENIKKNRYKDILPYDYSRVELSLITSDEDSSY 84
Db 27 ACEFSDIQACSAAWKADGVCSTVAGSRPENVRKNRYKDVLPYDQTRVILSLLQEEGHGDY 86

Qy 85 INANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWA 144
Db 87 INGNFIRGVDGSLAYIATQGPLPHTLLDFWRLVWEFGVKVILMACREIENGRKRCERYWA 146

Qy 145 EPGEMQLEFGPFSVSCEAEK-RKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSID 203
Db 147 QEQE-PLQAGPFCITLIKETALTNDTILRTLQVTFQKESRSVYQLQYMSWPDRGVPSSPD 205

Qy 204 PILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIR 263
Db 206 HMLAMVEEARRLQGSGPEPLCVHCSAGCGRTGVLCTVDYVRQLLLTQMIPPDFSLFDVVL 265

Qy 264 EMRTQRPSLVQTQEQYELVYNAVLELFKRQMDVIRDKHSGTESQAKHCIP 313
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RESULT 8
US-10-072-036-119
; Sequence 119, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP
; APPLICANT: Sara BJRON
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To A
; TITLE OF INVENTION: On A Cellular Response
; FILE REFERENCE: 3759-0120P
; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 119
; LENGTH: 853
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PTP-EGFP fusion
US-10-072-036-119

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Query Match 12.4%; Score 526.5; DB 9; Length 853;
Best Local Similarity 27.1%; Pred. No. 2.9e-26;
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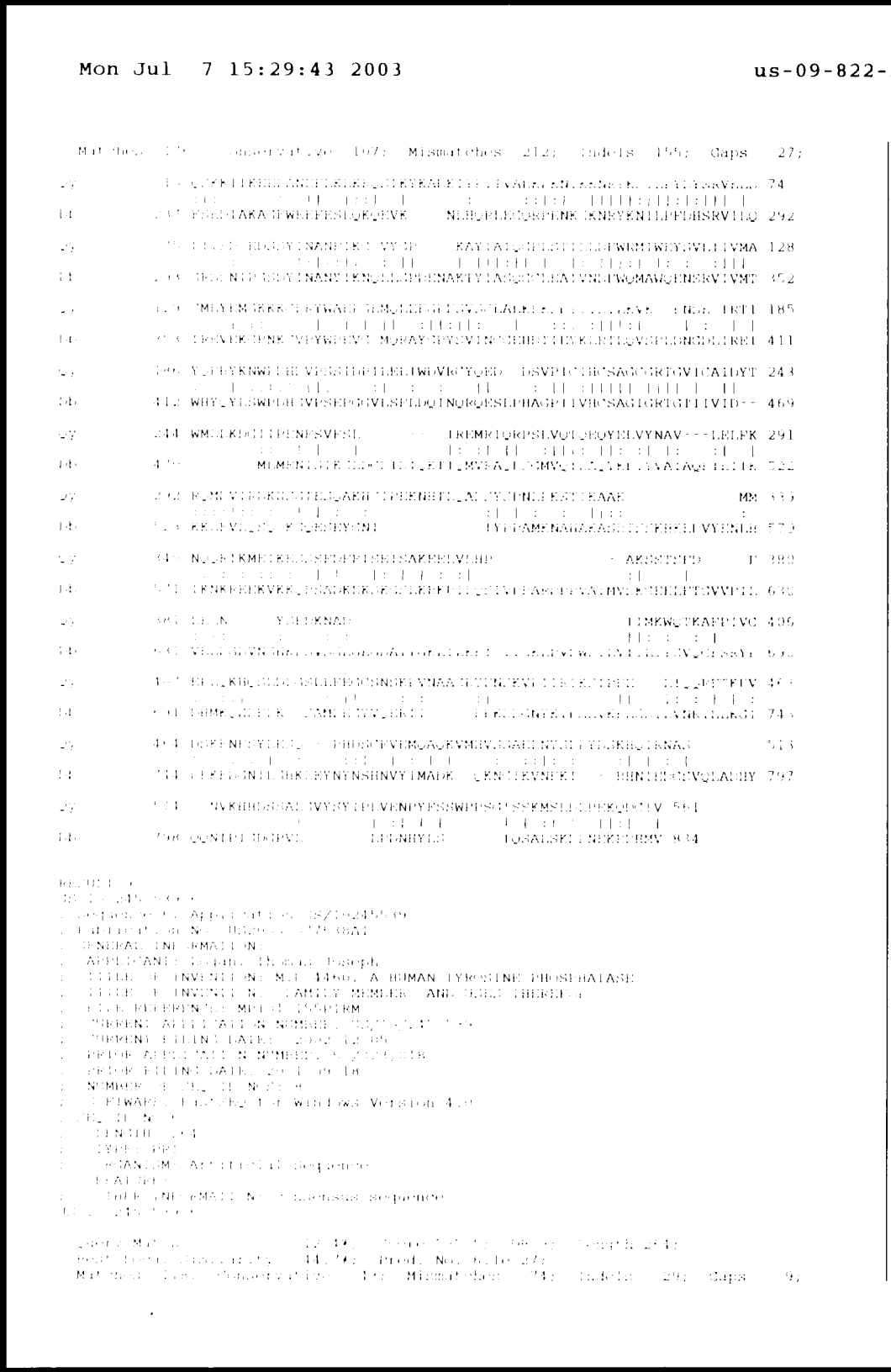

RESULT 10
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
; APPLICANT: KAPLAN, DAVID
; APPLICANT: MARCH, H. NICK
; TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
; TITLE OF INVENTION: COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
; FILE REFERENCE: 08338/016001
; CURRENT APPLICATION NUMBER: US/09/920,021A
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 08/918,177
; PRIOR FILING DATE: 1997-08-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-021A-1

Query Match 11.9%; Score 502.5; DB 10; Length 595;
Best Local Similarity 33.6%; Pred. No. 6.5e-25;
Matches 130; Conservative 79; Mismatches 126; Indels 61; Gaps 14;

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RESULT 11
US-10-072-036-117
; Sequence 117, Application US/10072036
; Publication No. US20030082554A1
; GENERAL INFORMATION:
;  APPLICANT: Ole THASTRUP
;  APPLICANT: Sara BJORN
;  APPLICANT: Soren TULLIN
;  APPLICANT: Kasper ALMHOLT
;  APPLICANT: Kurt SCUDDER
;  TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
;  TITLE OF INVENTION: On A Cellular Response
;  FILE REFERENCE: 3759-010P
;  CURRENT APPLICATION NUMBER: US/10/072,036
;  CURRENT FILING DATE: 2002-09-13
;  PRIOR APPLICATION NUMBER: 09/417,197
;  PRIOR FILING DATE: 1999-10-07
;  NUMBER OF SEQ ID NOS: 143
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 117
;   LENGTH: 843
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: EGFP-PTP fusion
US-10-072-036-117

  Query Match             11.9%;  Score 502.5;  DB 9;  Length 843;
  Best Local Similarity   33.6%;  Pred. No. 1.1e-24;
  Matches  130;  Conservative   70;  Mismatches  126;  Indels   61;  Gaps   14;

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RESULT 12
US-10-176-847-22
; Sequence 22, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
;  APPLICANT: Voity, Potter Ole
;  TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
;  TITLE OF INVENTION:  IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
;  TITLE OF INVENTION:  AND OVARIAN CANCER
;  FILE REFERENCE: MRI-039
;  CURRENT APPLICATION NUMBER: US/10/176,847
;  CURRENT FILING DATE: 2002-06-21
;  NUMBER OF SEQ ID NOS: 112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
;   LENGTH: 1463
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-176-847-22

  Query Match             11.8%;  Score 500.5;  DB 9;  Length 1463;
  Best Local Similarity   40.7%;  Pred. No. 3.3e-24;
  Matches  105;  Conservative   49;  Mismatches   91;  Indels   13;  Gaps    5;

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Db       1091 VKFLNPPEAGPIVVHCSAGAGRTGCFIAIDIMLDMAENEGVV-    DIFNCVRELRAQRV 1146

Qy        271 SLVQTQEQYELVYNAVLE 288
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Db       1147 NLVQTEEQYVFVHDAILE 1164

RESULT 13
US-10-205-823-343
; Sequence 343, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
;  APPLICANT: Schlegel, Robert
;  APPLICANT: Monahan, John E.
;  APPLICANT: Endege, Wilson O.
;  APPLICANT: Gannavarapu, Manjula
;  APPLICANT: Gorbatcheva, Bella
;  APPLICANT: Hoersch, Sebastian
;  APPLICANT: Kamatkar, Shubhangi
;  APPLICANT: Wonsey, Angela M.
;  APPLICANT: Glatt, Karen
;  APPLICANT: Zhao, Xumei
;  APPLICANT: Anderson, Dustin
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
;  TITLE OF INVENTION:  METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF PROSTATE CANCER
;  FILE REFERENCE: MRI-044
;  CURRENT APPLICATION NUMBER: US/10/205,823
;  CURRENT FILING DATE: 2002-07-25
;  PRIOR APPLICATION NUMBER: 60/307,982
;  PRIOR FILING DATE: 2001-07-25
;  PRIOR APPLICATION NUMBER: 60/314,356
;  PRIOR FILING DATE: 2001-08-22
;  PRIOR APPLICATION NUMBER: 60/325,020
;  PRIOR FILING DATE: 2001-09-25
;  PRIOR APPLICATION NUMBER: 60/341,745
;  PRIOR FILING DATE: 2001-12-12
;  PRIOR APPLICATION NUMBER: 60/362,158
;  PRIOR FILING DATE: 2002-03-05
;  NUMBER OF SEQ ID NOS: 455
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 343
;   LENGTH: 1463
;   TYPE: PRT
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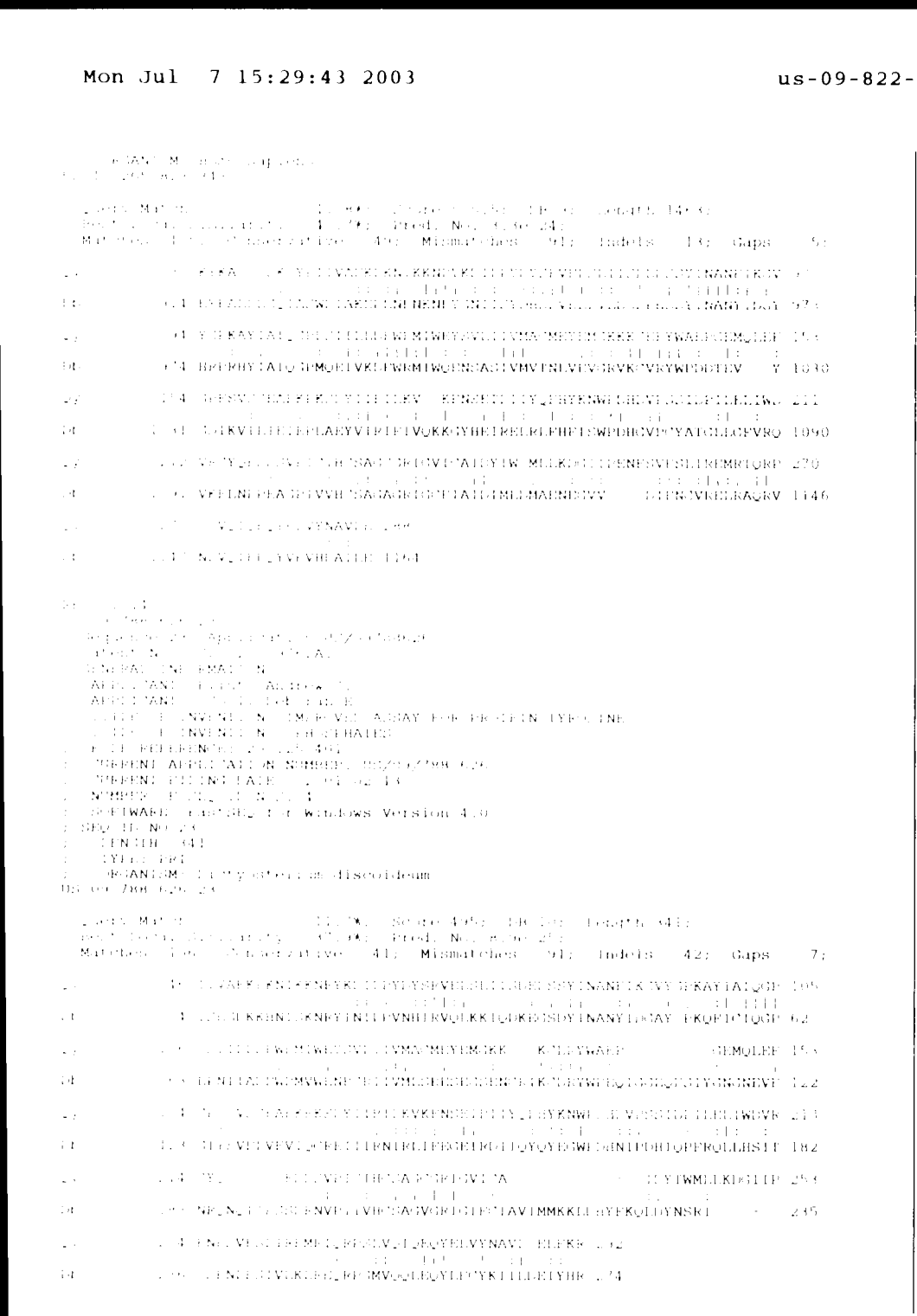
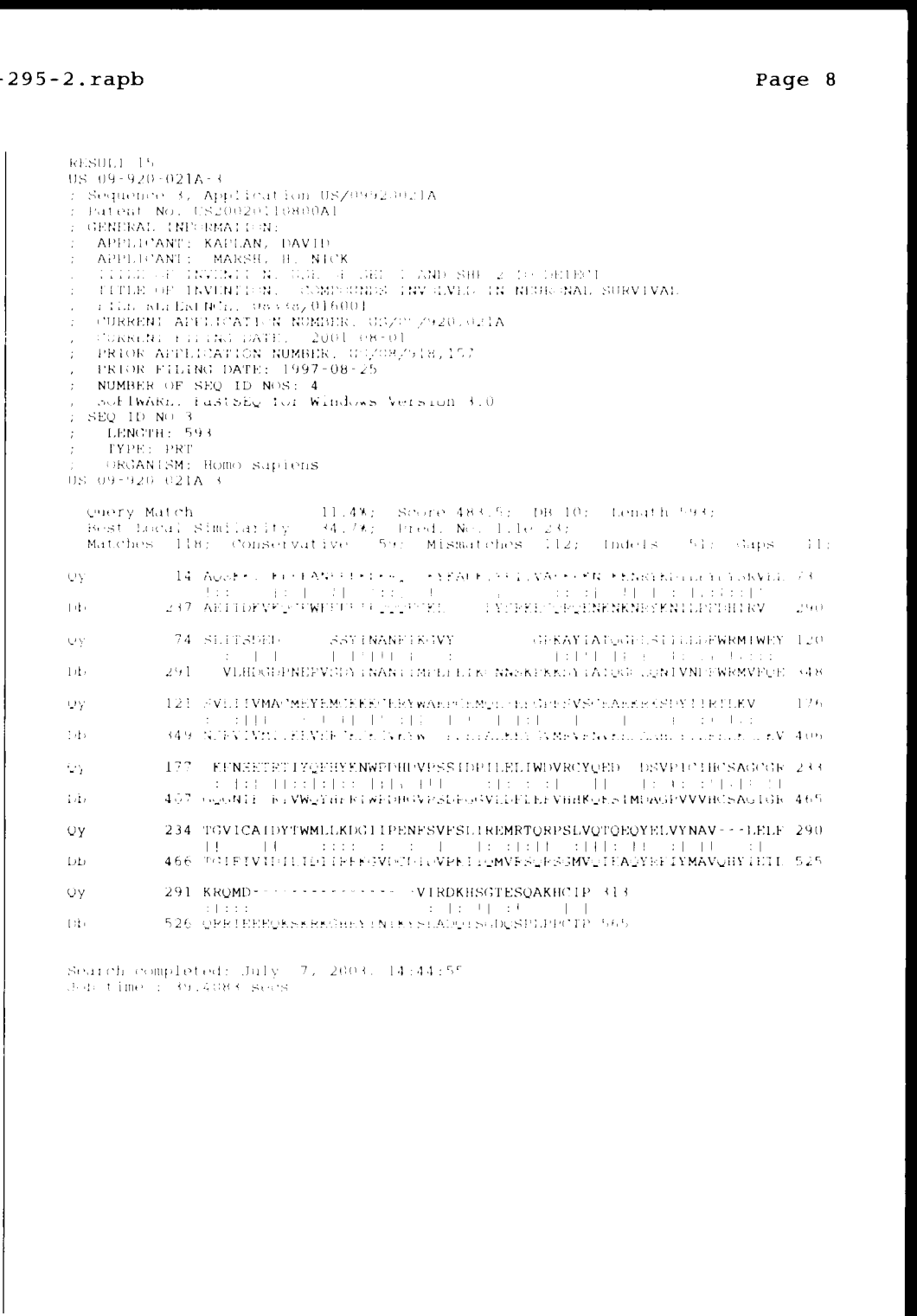


RESULT 15
US 09-920-021A-3
; Sequence 3, Application US/09920021A
; Patent No. US20020116000A1
; GENERAL INFORMATION:
; APPLICANT: KAPLAN, DAVID
; APPLICANT: MARSH, H. NICK
; TITLE OF INVENTION: COMPOSITIONS INVOLVED IN NEURONAL SURVIVAL
; FILE REFERENCE: 06758/016001
; CURRENT APPLICATION NUMBER: US/09/920,021A
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US/08/918,157
; PRIOR FILING DATE: 1997-08-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Homo Sapiens
US 09-920-021A-3

Query Match 11.4%; Score 483.5; DB 10; Length 593;
Best Local Similarity 34.7%; Pred. No. 1.1e-23;
Matches 118; Conservative 59; Mismatches 112; Indels 51; Gaps 11;



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Job time : 39.4383 secs

OM protein - protein search, using sw model

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(without alignments)
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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SUMMARIES

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2	2907.5	68.7	802	4	US-09-081-345-18	Sequence 18, Appl
3	1365	32.3	278	4	US-08-821-278A-18	Sequence 18, Appl
4	1024	24.2	272	4	US-08-821-278A-19	Sequence 19, Appl
5	644	[illegible]	253	2	US-08-685-992-20	Sequence 20, Appl
6	644	[illegible]	253	2	US-09-144-925-20	Sequence 20, Appl
7	[illegible]	[illegible]	453	3	US-08-951-260A-7	Sequence 7, Appli
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14	[illegible]	[illegible]	[illegible]	1	US-08-202-389-8	Sequence 8, Appli
15	496	[illegible]	593	1	US-08-018-129-5	Sequence 5, Appli
16	496	11.7	593	2	US-08-448-250-5	Sequence 5, Appli
17	495.5	11.7	1442	1	US-08-015-986A-3	Sequence 3, Appli
18	495.5	11.7	1442	2	US-08-446-363-3	Sequence 3, Appli
19	495	11.7	277	2	US-08-685-992-22	Sequence 22, Appl
20	495	11.7	277	2	US-09-144-925-22	Sequence 22, Appl
21	493	11.7	292	1	US-08-036-210-12	Sequence 12, Appl
22	493	11.7	292	2	US-08-449-609-12	Sequence 12, Appl
23	488.5	11.5	1452	2	US-08-652-971-4	Sequence 4, Appli
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28	488	11.5	1457	2	US-08-449-644-1	Sequence 1, Appli
29	488	11.5	1457	2	US-08-087-244A-1	Sequence 1, Appli
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34	486.5	11.5	1445	2	US-08-446-363-2	Sequence 2, Appli
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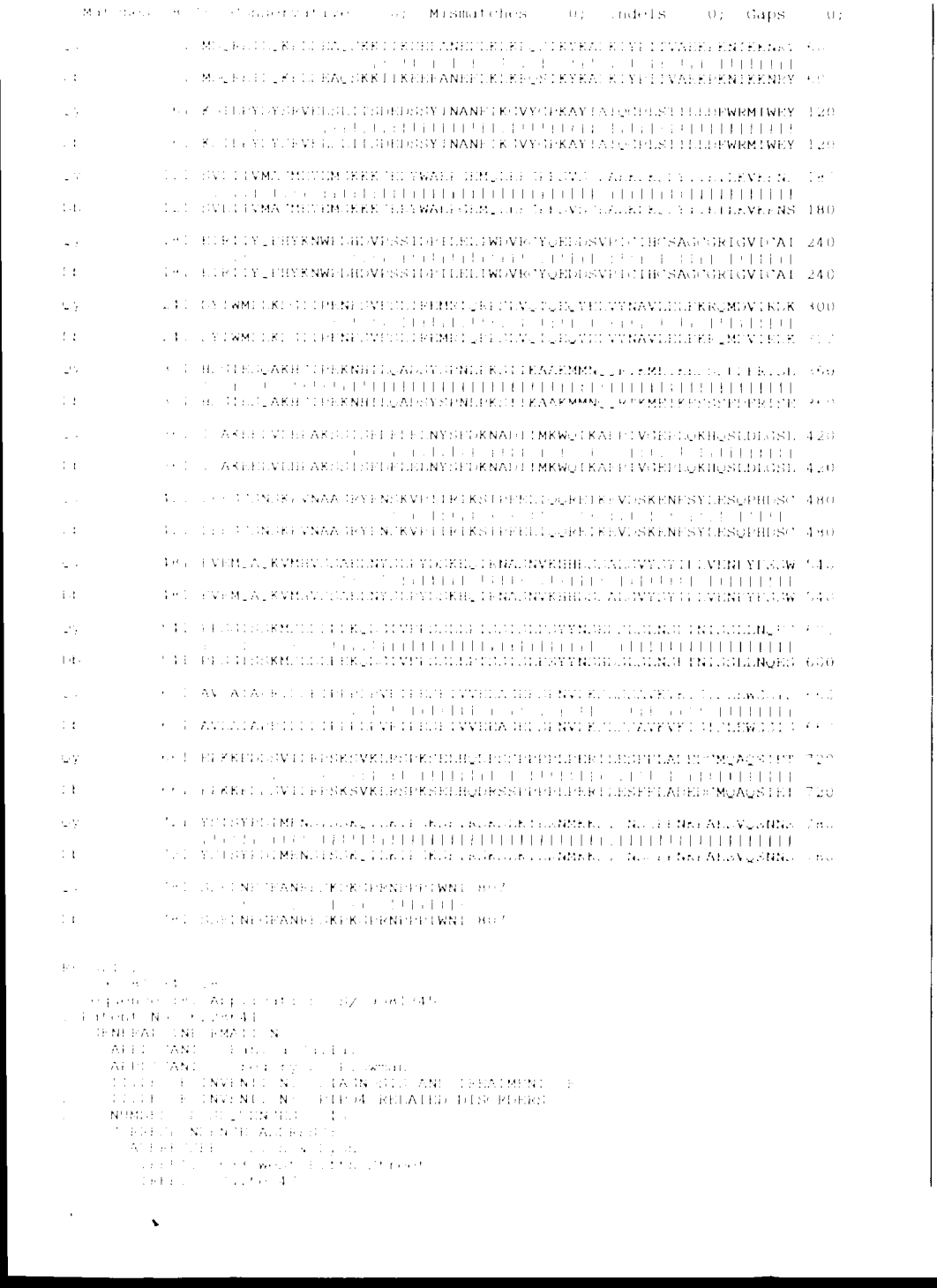
36	486.5	11.5	1452	2	US-08-087-244A-8	Sequence 8, Appli
37	485	11.5	1237	1	US-08-211-953-2	Sequence 2, Appli
38	485	11.5	1237	2	US-08-850-917-2	Sequence 2, Appli
39	483.5	11.4	593	1	US-08-202-389-12	Sequence 12, Appl
40	483.5	11.4	2314	4	US-09-816-703A-2	Sequence 2, Appli
41	477	11.3	2308	1	US-08-015-973-1	Sequence 1, Appli
42	477	11.3	2308	2	US-08-448-164-1	Sequence 1, Appli
43	477	11.3	2308	4	US-08-081-929-2	Sequence 2, Appli
44	475	11.2	249	2	US-08-685-992-8	Sequence 8, Appli
45	475	11.2	249	2	US-09-144-925-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: [illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 4230; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 0;



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RESULT 3
US-08-821-278A-18
; Sequence 18, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
;  APPLICANT:  Cheng, Jill
;  APPLICANT:  Lasky, Laurence A.
;  TITLE OF INVENTION:  Protein Tyrosine Phosphatases
;  FILE REFERENCE:  P1010R1
;  CURRENT APPLICATION NUMBER:  US/08/821,278A
;  CURRENT FILING DATE:  1997-03-20
;  NUMBER OF SEQ ID NOS:  23
; SEQ ID NO 18
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-08-821-278A-18

  Query Match             32.3%;  Score 1365;  DB 4;  Length 278;
  Best Local Similarity   88.3%;  Pred. No. 2.6e-98;
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Qy        264 EMRTQRPSLVQTQEQYELVYNAVLELFKRQMDVIRDKH 301
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RESULT 4
US-08-821-278A-19
; Sequence 19, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
;  APPLICANT:  Cheng, Jill
;  APPLICANT:  Lasky, Laurence A.
;  TITLE OF INVENTION:  Protein Tyrosine Phosphatases
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;  FILE REFERENCE:  P1010R1
;  CURRENT APPLICATION NUMBER:  US/08/821,278A
;  CURRENT FILING DATE:  1997-03-20
;  NUMBER OF SEQ ID NOS:  23
; SEQ ID NO 19
;   LENGTH: 272
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-08-821-278A-19

  Query Match             24.2%;  Score 1024;  DB 4;  Length 272;
  Best Local Similarity   66.4%;  Pred. No. 7.9e-72;
  Matches  180;  Conservative   46;  Mismatches   45;  Indels    0;  Gaps    0;

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Qy         84 YINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYW 143
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RESULT 5
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; Sequence 20, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
;   APPLICANT:  Tonks, Nicholas
;   APPLICANT:  Flint, Andrew J.
;   TITLE OF INVENTION:  SUBSTRATE TRAPPING PROTEIN
;   TITLE OF INVENTION:  TYROSINE PHOSPHATASES
;   NUMBER OF SEQUENCES:  36
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;     STREET:  Two Militia Drive
;     CITY:  Lexington
;     STATE:  MA
;     COUNTRY:  USA
;     ZIP:  02173
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Diskette
;     COMPUTER:  IBM Compatible
;     OPERATING SYSTEM:  Windows 95
;     SOFTWARE:  FastSEQ for Windows Version 2.0b
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/685,992
;     FILING DATE:  25-JUL-1996
;     CLASSIFICATION:  435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Granahan, Patricia
;     REGISTRATION NUMBER:  32,227
;     REFERENCE/DOCKET NUMBER:  CSHL96-03
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  781 861 6240
;     TELEFAX:  781-861-9540
;     TELEX:
; INFORMATION FOR SEQ ID NO:  20:
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-144-925-20

Query Match 22.3%; Score 944; DB 2; Length 253;
Best Local Similarity 66.4%; Pred. No. 1.2e-69;
Matches 168; Conservative 41; Mismatches 42; Indels 2; Gaps 1;

RESULT 7
US-08-951-260A-7
; Sequence 7, Application US/08951260A
; Patent No. 6004791
; GENERAL INFORMATION:
; APPLICANT: Aoki, Naohito
; APPLICANT: Ullrich, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; TITLE OF INVENTION: AND RELATED PROTEINS AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/951,260A
; FILING DATE: October 16, 1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/030,860
; FILING DATE: Nov. 600479,ember 13, 1996
; APPLICATION NUMBER: PCT/1997/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:

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;    SEQUENCE CHARACTERISTICS:
;       LENGTH: 453 amino acids
;       TYPE: amino acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;    MOLECULE TYPE: peptide
US-08-951-266A-7

  Query Match             17.7%;  Score 758.5;  DB 3;  Length 453;
  Best Local Similarity   43.0%;  Pred. No. 7.4e-51;
  Matches  158;  Conservative   60;  Mismatches  116;  Indels   27;  Gaps    6;

Qy          3 QEEILQEFEDEAQSKEIIKEE FANEFLELERQSTKYKADKIYPTIVAEKPENIKKNRYK 61
Db          4 QSDLVRSFLEQQEARDHRKGAILARRFSDIFARSVAWKTEGVCSTKACSQQGNSKKNRYK 63

Qy         62 DILPYDVSRVPLSLIDEDGGSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYS 121
Db         64 DVVPYDETRVILSLLQEEGHGDYINANFIRGTDGSQAYIATQGPLPHTLLDFWRLVWEFG 123

Qy        122 VLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKR KSDYIIRTLKVKFNS 180
Db        124 IKVILMACQEIENGRRKCERYWAQEPEPLQAGPFCITLTKETALNSDITLRTLQVTFQK 182

Qy        181 EIRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240
Db        183 ESRPVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAV 242

Qy        241 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMD----- 295
Db        243 DYVRQLLLTQTIPPNFSLFEVVLEMRKQRPAAVQTEEQYRFLYHIVAQLFSRTLQNNSPL 302

Qy        296      ---VIEFEKSITSQAKHCIPEKNHTLQADSYS----  SNSKKFIKA 335
Db        303 YQNLKENHAPICKEGGSLRTSSA    LPATSRPLGGVLRSISVPGPPTLPMADTYA 355

RESULT 8
US-08-821-278A-2
  Sequence 2, Application US/08821278A
  Patent No. 6238902
  GENERAL INFORMATION:
   APPLICANT: Chernoff, Jill
   APPLICANT: Lasky, Laurence A.
   TITLE OF INVENTION: Protein Tyrosine Phosphatases
   FILE REFERENCE: P1013R1
   CURRENT APPLICATION NUMBER: US/08/821,278A
   CURRENT FILING DATE: 1997-03-20
   NUMBER OF SEQ ID NOS: 23
  SEQ ID NO 2
   LENGTH: 453
   TYPE: PRT
   ORGANISM: Mus Musculus
US-08-821-278A-2

  Query Match             17.6%;  Score 746;  DB 4;  Length 453;
  Best Local Similarity   41.9%;  Pred. No. 5.9e-50;
  Matches  143;  Conservative   67;  Mismatches  108;  Indels    8;  Gaps    5;

Qy          5 EILQEFLDEAQSKEIIKEE-FANEFLKLERQSTKYKADKIYPTIVAEKPENIKKNRYKDI 63
Db          6 DLVRSFLEQLEARDYREGAIFVREFSDIKARSVAWKSEGVCSTKACSRLGNTNKNRYKDV 65

Qy         64 LPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVL 123
Db         66 VAYDETRVILSLLQEEGHSNYINANFIRGIDGSQAYIATQGPLPHTLLDFWRLVWEFGVK 125

Qy        124 IIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKR K DYIIRTLKVKFNSET 182
Db        126 VILMACQEIENGRRKCERYWAREQEPLKAGPFCITLTKETTLNADIRLRTLQVTFQKEF 184

Qy        183 RTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDY 242
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Db        185 RSVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAVDY 244

Qy        243 TWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMDVIRDKHS 302
Db        245 VRQLLLTQTIPPNFSLFQVVLEMRKQRPAAVQTEEQYRFLYHIVAQLFSR   ILQDNSP 301

Qy        303 GTESQAKHCIP  EKNHTLQADSYSP 326
Db        302 HYQNLKENCAPICKEAFSLRTSSALP 327

RESULT 9
US-08-854-585-2
; Sequence 2, Application US/08854585
; Patent No. 6114140
;  GENERAL INFORMATION:
;    APPLICANT: Tonks, Nicholas K. and Ostman, Arne
;    TITLE OF INVENTION: Density Enhanced Protein Tyrosine Phosphatase
;    NUMBER OF SEQUENCES: 6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET: 233 South Wacker Drive, Suite 6300
;      CITY: Chicago
;      STATE: Illinois
;      COUNTRY: United States of America
;      ZIP: 60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/854,585
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US/08/237,940
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME: Borun, Michael F.
;      REGISTRATION NUMBER: 25,447
;      REFERENCE/DOCKET NUMBER: 27866/31954
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 312 474 6300
;      TELEFAX: 312-474-0448
;  INFORMATION FOR SEQ ID NO: 2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 1337 amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-854-585-2

  Query Match             12.0%;  Score 506.5;  DB 3;  Length 1337;
  Best Local Similarity   39.0%;  Pred. No. 1.5e-30;
  Matches  115;  Conservative   50;  Mismatches  109;  Indels   21;  Gaps    8;

Qy         15 QSKKIIKEEFANEFLKLERQST     KYKADK    IYPTIVAEKPENIKKNRYKDILP 65
Db       1017 KSKLIRVENFEAYFKKQQADSNCGFAEEYEDLKLVGISQPKYAAELAENRGKNRYNNVLP 1076

Qy         66 YDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLII 125
Db       1077 YDISRVKLSVQTHSTDDYINANYMPGYHSKKDFIATQGPLPNTLKDFWRMVWEKNVYAI 1135

Qy        126 VMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNSETR 183
Db       1136 IMLTKCVEQGRTKCEEYW PSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 1193

Qy        184 TIYQFHYKNWPDHDVPSSIDPILELIWDVRCY--QEDDSVPICIHCSAGCGRTGVICAID 241
Db       1194 PLRQFHFTSWPDHGVPDTTDLLINFRYLVRDYMKQSPPESPILVHCSAGVGRTGTFIAID 1253

Qy        242 YTWMLLKDGIIPEN-FSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMD 295
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Db        [illegible] ENIVDVY[illegible]VYDLEMHPIMV[illegible]YVI[illegible]N[illegible]VLDIVRGQKE 1304

[illegible]
; Sequence [illegible], Application [illegible]
; GENERAL INFORMATION:
;   APPLICANT: [illegible]aks, Nicholas K. and [illegible]stman, Arne
;   TITLE OF INVENTION: Density Enhanced Protein Tyrosine
;   TITLE OF INVENTION: Phosphatase
;   NUMBER OF SEQUENCES: [illegible]
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Marshall, [illegible], Gerstein, Murray &
;     ADDRESSEE: Borun
;     STREET: [illegible] South Wacker Drive, Suite [illegible]
;     CITY: Chicago
;     STATE: Illinois
;     COUNTRY: United States of America
;     ZIP: [illegible]
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.2[illegible]
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: [illegible]
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME: [illegible]
;     REGISTRATION NUMBER: [illegible]
;     REFERENCE/DOCKET NUMBER: [illegible]
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: [illegible]
;     TELEFAX: [illegible] 474 [illegible]448
; INFORMATION FOR SEQ ID NO: [illegible]
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: [illegible] amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
;   MOLECULE TYPE: protein
[illegible]

  Query Match             12.0%;  Score 506.5;  DB 5;  Length 1337;
  Best Local Similarity   39.0%;  Pred. No. 1.5e-30;
  Matches  [illegible];  Conservative  [illegible];  Mismatches  [illegible];  Indels  21;  Gaps  8;

Qy        [illegible]
Db        [illegible] 1076
Qy        [illegible] 125
Db        [illegible]
Qy        [illegible]
Db        [illegible]
Qy        [illegible] 241
Db        [illegible] 125[illegible]
Qy        [illegible]
Db        [illegible] 1304

[illegible]
; Sequence [illegible], Application [illegible]
; GENERAL INFORMATION:
;   APPLICANT: Freeman Jr., Robert M.
;   APPLICANT: Plutzky, Jorge
;   APPLICANT: Neel, Benjamin G.
;   APPLICANT: Rosenberg, Robert D.
;   TITLE OF INVENTION: IDENTIFICATION OF NOVEL TYROSINE
;   TITLE OF INVENTION: PHOSPHATASES HAVING SH2 DOMAINS
;   NUMBER OF SEQUENCES: 54
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
;     STREET: Two Militia Drive
;     CITY: Lexington
;     STATE: MA
;     COUNTRY: USA
;     ZIP: 02173
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/202,389
;     FILING DATE: 28-FEB-1994
;     CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US 07/983,926
;     FILING DATE: 01-DEC-1992
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US 07/829,141
;     FILING DATE: 31-JAN-1992
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US 07/[illegible]
;     FILING DATE: 26-JUN-1991
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Granahan, Patricia
;     REGISTRATION NUMBER: 32,227
;     REFERENCE/DOCKET NUMBER: BIH92-05MA
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (617) 861-6240
;     TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 6:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 595 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-08-202-389-6

  Query Match             11.9%;  Score 504.5;  DB 1;  Length 595;
  Best Local Similarity   33.6%;  Pred. No. 6.1e-31;
  Matches  [illegible];  Conservative  [illegible];  Mismatches  126;  Indels  61;  Gaps  14;

Qy         15 QSEKIIKEEFANEFLKLKRQ[illegible]IKYKADKIYPT[illegible]VAEKPKNIKKNRYK[illegible]PYDYSRVELS 74
Db        235 [illegible] 290
Qy         75 [illegible] 128
Db        291 [illegible] 350
Qy        129 [illegible] 185
Db        351 TEEVEKCPNE[illegible] 409
Qy        186 [illegible] 243
Db        410 [illegible] 467
Qy        244 WMLLKDQ[illegible]IPENESVPSL     [illegible]EEMKT[illegible]VQTQDQYKIVYNAV   LFLFK 291
Db        468 ---  M[illegible] 520
Qy        292 [illegible]                                  MM 339
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Db        521 KKFEVKQRQ-FLKPTYNE----    TYIEAMKNANAKAFKLSKGKLSVYENLA 768

Qy        340 NQQSIKMPIKLSSSDKSVLLAEKL 363

Db        5?? IKNFEFRVKVQSAEEKSKQSKKK 595
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RESULT 12
US-08-449-644-2
; Sequence 2, Application US/08449644
; Patent No. [illegible]
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; APPLICANT: Fuchs, Miriam
; TITLE OF INVENTION: NOVEL RECEPTOR TYPE PHOSPHOTYROSINE
; TITLE OF INVENTION: PHOSPHATASE-KAPPA
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/449,644
; FILING DATE: 24-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/087,244
; FILING DATE: 01-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1439 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-449-644-2

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  Query Match             11.9%;  Score 502;  DB 2;  Length 1439;
  Best Local Similarity   29.6%;  Pred. No. 3.6e-30;
  Matches  138;  Conservative   77;  Mismatches  164;  Indels   88;  Gaps   17;

Qy         21 KEEFANEEIKLEEQSTEYEALKTYPTIVAEKPENIKENRYKDILPYDHSRVELSLIISDL 80

Db        888 KEEYESFF---EQQSASW          DVAKKDQNRAKNRYGNIIAYDHSRVILQPVEDDP 936

Qy         81 DSSYINANFIKGVYGPKAYIATQGPLSTILLDFWRMIWEYSVLIIVMACMEYEMGKKKCE 140

Db        937 SSDYINANYIDGYQRPSHYIATQGPVHETVYDFWRMIWQEQSACIVMVTNLVEVGRVKCY 996

Qy        141 RYWAEPGEMQLEFGPFSVSCEAEKKKSDYIIR--TLKVKFNSETRIIYQFHYKNWPDHDV 198

Db        997 KYWPDDTEV---YGDFKVTCVEMEPLAEYVVRTFTLERRGYNEIREVKQFHFTGWPDHGV 1053

Qy        199 PSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW-MLLKDGIIPENFS 257
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Db       1054 PYHATGLLSFIRRVKLSNPPSAGPIVVHCSAGAGRTGCYIVIDIMLDMAEREGVV   D 1109

Qy        258 VFSLIREMRTQRPSLVQTQEQYELVYNAVLEL         FK RQMDV R        298

Db       1110 IYNCVKALRSRRINMVQTEEQYIFIHQAILEACLCGETAIPVCEFKAAYFDMIRIDSQTN 1169

Qy        299 DEHEGTESQAKH              VEEKNEDL  AQVYEN  LEKQIEAAEDDN 340

Db       1170 SSHLKDEFQTLNSVTPRLQAEDCSIACLPRNHDKNRFMDMLPPDRCLPFLITIDGESSNY 1228

Qy        341 QQKIKM  LKKGQDLLKEPCDKSKLDVLIIHEAKCLKETPLEKNYSP          387

Db       1229 YINAALMDSYRQPAAF           IVTQYPLPNTVKDFWRLVYDYGCTSIVMLNEV 1276

Qy        388 DKNAPTTMKWQTKAP--  PIVCPLLQKHQSLDLGVLILPPCQNSKP 430

Db       1277 DLSQGCPQYWPEEGMLRYGPIQVECMSCSMDCDVINRIFRICNLTRP 1323
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RESULT 13
US-08-087-244A-2
; Sequence 2, Application US/08087244A
; Patent No. 5863755
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; APPLICANT: Fuchs, Miriam
; TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE
; TITLE OF INVENTION: PHOSPHATASE-KAPPA
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/087,244A
; FILING DATE: 01 JUL 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1439 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-087-244A-2

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  Query Match             11.9%;  Score 502;  DB 2;  Length 1439;
  Best Local Similarity   29.6%;  Pred. No. 3.6e-30;
  Matches  138;  Conservative   77;  Mismatches  164;  Indels   88;  Gaps   17;

Qy         21 KEEFANEEIKLEEQSTEYEALKTYPTIVAEKPENIKENRYKDILPYDHSRVELSLIISDL 80

Db        888 KEEYESFF---EQQSASW------DVAKKDQNRAKNRYGNIIAYDHSRVILQPVEDDP 936

Qy         81 DSSYINANFIKGVYGPKAYIATQGPLSTILLDFWRMIWEYSVLIIVMACMEYEMGKKKCE 140
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Db        [illegible] YINANY[illegible]YQ[illegible]HY[illegible]PVHH[illegible]VYD[illegible]WRMIW[illegible]IVMVINLVEVGRVKCY 996

Qy        141 [illegible]YWA[illegible]EKL[illegible]KNWF[illegible]V 198
Db        [illegible] KYW[illegible]VEMH[illegible]LADYVV[illegible]GWF[illegible]GV 105[illegible]

Qy        1[illegible] [illegible]WDVK[illegible]G[illegible]VIC[illegible]TW MLLK[illegible]ENFS 257
Db        1[illegible] [illegible]YHA[illegible]VKL[illegible]NPP[illegible]P[illegible]VVH[illegible]YIVIDIMLDMAERE[illegible]VV D 1109

Qy        258 V[illegible]VYNAV[illegible] FK [illegible]VIE 298
Db        11[illegible] [illegible]YN[illegible] 11[illegible]

Qy        [illegible] [illegible]AKH CIPEKN[illegible] [illegible]KAAKMMN [illegible]
Db        [illegible] [illegible]NSV[illegible]ENHDKN[illegible]DGHSSN 1228

Qy        341 [illegible]AKEE[illegible]AK[illegible]LNYSF 367
Db        12[illegible] YINAALMD[illegible]YR[illegible]AA[illegible] [illegible]NIVK[illegible]IVMLNEV 1276

Qy        [illegible] [illegible]KNA[illegible]MKW[illegible]KA[illegible] [illegible]NGKF 1[illegible]
Db        [illegible] [illegible]YW[illegible]VINK[illegible]NG[illegible] 1[illegible]
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RESULT 14
US-08-202-389-8
; Sequence 8, Application US/08202389
; Patent No. 55[illegible]
; GENERAL INFORMATION:
; APPLICANT: Freeman Jr., Robert M.
; APPLICANT: Plutzky, Jorge
; APPLICANT: Neel, Benjamin G.
; APPLICANT: Rosenberg, Robert D.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL TYROSINE
; TITLE OF INVENTION: PHOSPHATASES HAVING SH2 DOMAINS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: [illegible]
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/202,389
; FILING DATE: 28 FEB 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/983,926
; FILING DATE: [illegible] 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/829,141
; FILING DATE: [illegible] JAN 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/723,112
; FILING DATE: [illegible] JUN 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: [illegible]
; REGISTRATION NUMBER: [illegible]
; REFERENCE/DOCKET NUMBER: BIH92 05MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) [illegible]
; TELEFAX: (617) [illegible]
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 631 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-202-389-8

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  Query Match             11.9%;  Score 501.5;  DB 1;  Length 631;
  Best Local Similarity   32.1%;  Pred. No. 1.1e-30;
  Matches  142;  Conservative   73;  Mismatches  140;  Indels   87;  Gaps   18;

Qy         15 Q[illegible]EEFANEFLEL[illegible]YKA[illegible]VAEKENIKKNKYK[illegible]YLY[illegible]KV[illegible] 74
Db        2[illegible] [illegible]AKAG[illegible]WEEE[illegible]VF N[illegible]ENKYKN[illegible]KV[illegible] 290

Qy         75 L[illegible]NAN[illegible]KG VT[illegible] KAY[illegible]WKM[illegible]WEYSV[illegible]VMA 128
Db        291 GKDSNIFGSDYINANYIKNQ[illegible]ENAK[illegible]IASQG[illegible]AIVNDFWQMAWQENSRVIVMI 350

Qy        129 [illegible]M[illegible]MGKEK[illegible]ERYWAE[illegible]EM[illegible]FG[illegible]SVSCEAEKKKSDY[illegible]RTLEVK FNSE-TRTI 185
Db        351 [illegible]REVEKGRNKCVPYWPEVG-MQRAYGPYSVTNCGEHDTTEYKLRTLQVSPLDNGDLIREI 409

Qy        186 YQFHYKNWPDHDVPSS[illegible]LLEL[illegible]WDVKCYQED--DSVPICIHCSAGCGRIGVICAIDYT 243
Db        410 WHY[illegible]SWPDHGV[illegible]NQRQESLPHAGPIIVHCSAGIGRIGTIIVID-- 467

Qy        244 WMLLKD[illegible]IPENFSVFSL IREMRTQRPSLVQTQEQYELVYNAV LELFK 291
Db        468 -------MLMENISTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETTK 520

Qy        292 RQMDVIRDKHSCTESQAKHC[illegible]PEKNHT[illegible]QAPSYSPNL[illegible]KAAKMMNQKRTKMEIKES 351
Db        521 KKLEVLQSQ-KGQESEYGNI-----------IYPPAMKNAHAKAS------RISSKHKED 562

Qy        352 SSFDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAFPIVGEPLQK 411
Db        563 VYENLHTK--NKREE--------------------SEEAAVSRQGEEQGFP-----QE 593

Qy        412 HQSLDLGSLLFEGCSNSKPVNA 433
Db        594 EVS---GAVLRWPCLSPDPVEA 612
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RESULT 15
US-08-018-129-5
; Sequence 5, Application US/08018129
; Patent No. 5589375
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; TITLE OF INVENTION: PTP 1D: A NOVEL PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/018,129
; FILING DATE: 19930216
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872

REFERENCE/PATENT NUMBER: 7683-017
FILING INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869 8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 593 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-018-129-5

Query Match 11.7%; Score 496; DB 1; Length 593;
Best Local Similarity 33.2%; Pred. No. 2.8e-30;
Matches 121; Conservative 67; Mismatches 122; Indels 60; Gaps 12;